



15-Bar Pressure Plate Extractor.

Code: [532-120](#)

Product Group: [Pressure plate extractors](#)

Used to determine - available water capacity, water retentivity, hydraulic conductivity and field capacity.

Applications include - soil classification and survey, optimisation of irrigation and drainage, calibration of soil water and measuring apparatus for field use.

The pressure plate is used to determine soil water retention and suctions greater than 0.4 bar. The apparatus consists of strongly built metal chambers containing one or more ceramic plates, on to which uniform soil samples are placed. Having attained maximum moisture retention (field capacity) the samples within the cells are then subjected to controlled positive air pressures and water is gradually removed. By careful control of pressure, the various equilibrium conditions of pressure and soil water tension or suction are obtained.

The air pressure is provided either from a compressor, compressed air bottle or nitrogen bottle. The air pressure source must always be routed via a pressure regulation manifold.

ELE can supply three types of pressure plate extraction systems, which cover the pressure range 0-15 bar.

Specification

Capacity	Up to 36 samples
Pressure	0-15 bar (220psi)
Closure	8 bolts with wing nuts; O-ring seal on hinged lid
Outflow	5 ports with outlet tubes NPT outlet
For electrical leads	1/4 inch (6.45 mm)
Internal dimensions	305 mm x 101.6 mm (dia. x depth)
Weight	40.4 kg

Accessories



1-Bar Pressure Plate Cell

Code: [532-104](#)



15-Bar Pressure Plate Cell.

Code: [532-120/10](#)



3-Bar Pressure Plate Cell

Code: [532-106](#)



5-Bar Pressure Plate Cell

Code: [532-107](#)



Soil Sample Retaining Rings Pack of 12.

Code: [532-108](#)

Spares/Consumables



Hose Manifold to 15 Bar Extractor.

Code: [532-112](#)



O-Ring Lid Seal Pack of 2

Code: [532-100/10](#)



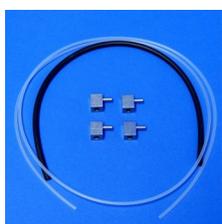
Outflow tube assembly with seal

Code: [532-120/14](#)



Plug bolts with seal

Code: [532-120/16](#)



Right angle outflow adapter kit

Code: [532-120/12](#)

Alternatives



5-Bar Pressure Plate Extractor.

Code: 532-100