



## TEMPE PRESSURE CELL

The Model 1400 Tempe Pressure Cell is used to determine the water-holding characteristics of a soil sample in the 0 to 1 bar pressure range. The cell accepts an undisturbed soil sample contained in a 2-1/4" (5.7 cm) diameter cylinder, such as that taken with the Model 0200 Soil Core Sampler. Smaller cores may be placed inside the 2-1/4" diameter brass cylinder if desired. The Tempe cell comes with top and bottom Plexiglass plates, a porous ceramic plate, a brass cylinder, and all sealing and connecting hardware. A variety of porous ceramic plates and brass cylinders are available. An external pressure source is connected to the Tempe cell using Neoprene tubing.

**Uses 1430 Ceramic Plates. Look below to select**

Select options:

Part number	Description
1400B0.5M2-3	TEMPE PRESSURE CELL, 1/2 bar plate, with 2-1/4" (5.7 cm) OD x 3 cm cylinder
1400B0.5M2-6	TEMPE PRESSURE CELL, 1/2 bar plate, with 2-1/4" (5.7 cm) OD x 6 cm cylinder
1400B01M1-3	TEMPE PRESSURE CELL, 1 bar standard plate, with 2-1/4" (5.7 cm) OD x 3 cm cylinder
1400B01M1-6	TEMPE PRESSURE CELL, 1 bar standard plate, with 2-1/4" (5.7 cm) OD x 6 cm cylinder
1400B01M3-3	TEMPE PRESSURE CELL, 1 bar high flow plate, with 2-1/4" (5.7 cm) OD x 3 cm cylinder
1400B01M3-6	TEMPE PRESSURE CELL, 1 bar high flow plate, with 2-1/4" (5.7 cm) OD x 6 cm cylinder

## How to configure the tempe cell when ordering

Configuring a Tempe Cell is as easy as A,B, C. There are three important parts to a Tempe Cell: A) the cylinder size; B) the bar value of the plate; and C) the size brass cylinder. Here we will show you how to indicate on an order a 1405 Tempe Cell configured with a 1 bar, high flow plate and a 6 cm tall cylinder.

First, we select the correct size Tempe Cell needed (either the 1400 or the 1405).

**1400**  
**A**   **B**   **C**

Next, you select which bar value rating your application requires. There are 3 different porous ceramic plates to choose from:

B.5M2 1/2 bar high flow ceramic

B1M1 1 bar standard ceramic

B1M3 1 Bar high flow ceramic

Since we need a 1 Bar, high flow porous plate, we write in section B:

**1400**   **B1M3**  
**A**   **B**   **C**