

6100 Compensated Jacket Calorimeter



6100 Calorimeter open with 1108P Bomb and Bucket

The 6100 Compensated Jacket Calorimeter is a compact, static jacket calorimeter that operates at approximately room temperature taking full advantage of modern microprocessor capabilities. The microprocessor controller in the 6100 will automatically monitor the jacket temperature and apply the required corrections in real time. The advantages of this system include less water, less energy, and less hardware while still affording good precision. The 6100 model also uses the traditional removable bomb and bucket design. This combination along with a reasonable price makes it attractive for coal testing, waste and refuse disposal work, and other sample testing.

Automatic Oxygen Fill

Like the 6200 Calorimeter, the 6100 Calorimeter has an automatic system for charging the bomb with oxygen where the oxygen feed is controlled by a solenoid installed inside the calorimeter. To fill the bomb, the operator simply slips the filling hose connector onto the bomb inlet valve and presses a button on the touch screen to start the filling sequence. Filling then proceeds automatically at a controlled rate to an established operating pressure.

Good Repeatability

With careful control of the testing environment, and a routine calibration schedule, the Parr 6100 Compensated Jacket Calorimeter with its static jacket can achieve a precision classification of 0.1 percent. Please see our website, or refer to the operator's manual for more details.

Laboratory Requirements

The calorimeter requires a source of 99.5 percent oxygen, and two liters of water per test.

Expanded System

The 6120 Expanded System includes the following components:

- 6100 Calorimeter
- 1759 Printer
- Extra Bomb and Bucket
- 6008P Bomb Maintenance Kit
- 6109P, 1 Year Service Kit

SPECIFICATIONS

Model Number:
6100

Tests Per Hour:
4 – 8

Operator Time Per Test:
6 Minutes

Precision Classification:
0.1 – 0.2% Class

Jacket Type:
Continuously Compensated

Oxygen Fill:
Automatic

Bucket Fill:
Manual

Bomb Wash:
Manual

Bomb Model Options:
1108, Alloy 20
1108CL, Alloy G30
1108B, Alloy 20
1108BCL, Alloy G30
1108BP, Alloy 20
1108BPCL, Alloy G30
1108P, Alloy 20
1108PCL, Alloy G30
1109A, 22mL Semimicro
1109X, 22mL High Strength Semimicro
1104, High Strength

Balance Communication:
USB

Printer Communication:
USB

Network Connection:
TCP/IP via Ethernet

Dimensions (cm):
57w x 40d x 43h

6100 Compensated Jacket Calorimeter Ordering Guide

Model No.	Voltage	Description
6100EA / EF	115 V / 230 V	6100 Calorimeter with 1108P Oxygen Bomb of Alloy 20
6100CLEA / EF	115 V / 230 V	6100 Calorimeter with 1108PCL Oxygen Bomb of Alloy G30
6120EA / EF	115 V / 230 V	6120 Expanded System with 1108P Oxygen Bombs of Alloy 20 and Principal Components
6120CLEA / EF	115 V / 230 V	6120 Expanded System with 1108PCL Oxygen Bombs of Alloy G30 and Principal Components