

6400 Automatic Isoperibol Calorimeter



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The 6400 Automatic Isoperibol Calorimeter represents the next evolutionary step in the Parr automated calorimeters. Inclusive and compact, the instrument incorporates a closed loop cooling subsystem into the calorimeter. This subsystem uses a thermoelectric cooler assembly attached directly to a one liter water tank which supplies cooling water to the calorimeter. An external nitrogen pressurized tank is used to supply rinse water to the calorimeter. This model features the fixed bomb and bucket design allowing for automated bucket and jacket fill as well as automated vessel fill and rinse. The 6400 requires one minute of operator time per test, allowing a technician to operate up to four calorimeters simultaneously.

Quick Twist-Lock Bomb

The 1138 Oxygen Bomb has been redesigned to withstand a higher magnitude of tests. The head is designed with an O-ring groove which is optimized to minimize frictional wear, in turn improving the lifetime of the seal. The bomb head is removable for fast sample loading using the patented Quick Twist-Lock vessel closure design.

Laboratory Requirements

The calorimeter requires a source of 99.5% oxygen, a source of nitrogen or compressed air at 80 psi, and deionized water.

SPECIFICATIONS

Model Number:
6400

Tests Per Hour:
6 - 7

Operator Time Per Test:
1 Minute

Precision Classification:
0.1% Class

Jacket Type:
Isoperibol, Water Jacket

Oxygen Fill:
Automatic

Bucket Fill:
Automatic

Bomb Wash:
Automatic

Bomb Model Options:
1138, 250mL Alloy 20
1138CL, 250mL Alloy G30

Balance Communication:
RS232C Port

Printer Communication:
RS232C Port

Network Connection:
TCP/IP via Ethernet

Dimensions (cm):
42w x 46d x 51h

6400 Automatic Isoperibol Calorimeter, continued



1138 Oxygen Combustion Bomb



6400 Automatic Isoperibol Calorimeter Open

Expanded System

The 6420 Expanded System is a convenient way to order all of the components necessary for a complete system. The system includes the following parts:

- 6400 Calorimeter
- 1576 Rinse Tank
- 1757 Printer
- Extra 1138 Bomb Head Assembly
- 6038 Bomb Maintenance Kit
- 6409B, 1 Year Service Kit

6400 Ordering Guide

6400 Automatic Isoperibol Calorimeter

Model No.	Voltage	Description
6400EA / EF	115 V / 230 V	6400 Calorimeter with 1138 Oxygen Bomb of Alloy 20
6400CLEA / EF	115 V / 230 V	6400 Calorimeter with 1138 Oxygen Bomb of Alloy G30
6420EA / EF	115 V / 230 V	6420 Expanded System with 1138 Oxygen Bomb of Alloy 20
6420CLEA / EF	115 V / 230 V	6420 Expanded System with 1138 Oxygen Bomb of Alloy G30