

Water Handling Systems

To increase throughput and precision, an effective means of supplying temperature controlled and measured water is desired. There are two basic methods for replacing test water:

Open Loop

In an open loop system, the water from the bucket is drained and replaced with cool, fresh water from the tap prior to starting another test. If the laboratory has a supply of good quality, cool tap water and a convenient drain, an open loop system requires a bare minimum of accessories. This is standard for the 6200.

Closed Loop

In a closed loop system, the bucket and jacket water is recycled to a holding tank and circulated through a cooler to bring the water back to the desired starting temperature. Users who desire more consistency than tap water provides, or where water supplies may be high in mineral content, which over time can deposit in the calorimeter, will prefer this mode of operation.

6200 Isoperibol Calorimeter Options

Open Loop

For open loop operation in the 6200 Calorimeter, tap water is brought into the back of the calorimeter and the heated water is fed to the drain. Since this water is only used for cooling the jacket, the 6200 Calorimeter can operate efficiently with the tap water temperature up to 25 °C. Water for the bucket is normally drawn from a faucet supply and will need to adopt a constant and initial temperature compatible with the water supply.

Closed Loop

In the 6200 Calorimeter, the operator must make provisions for precisely adding the correct volume of water at a repeatable starting temperature.



6510 Water Handling System operates on the bench top, next to the calorimeter.

The 6510 Water Handling System uses thermoelectric cooling and a unique glass pipette to deliver a precise amount of temperature controlled water for filling the bucket and provide cooling water for the jacket.

The 6400 Automatic Isoperibol Calorimeter

In the 6400 Calorimeter, the water handling system is built in. There is no need for an external water handling system.

Water Handling System Option for the 6200 Calorimeter Ordering Guide

Model No.	Voltage	Description
6510EA / EF	115 V / 230 V	6510 Water Recirculation System