



atlas

automated
synthesis system

hot & cold plate

easy reaction
heating and cooling



Atlas simply does it all

What is the Atlas Hot and Cold Plate?

The Atlas Hot and Cold Plate is an easy and accurate way of heating and cooling reactions in flasks or vials. Designed to fit on the Atlas Base, the Hot and Cold Plate connects to a recirculating heater/cooler to provide temperature control from -40°C to $+160^{\circ}\text{C}$. When a controllable circulator is connected to the Atlas Base, the Hot and Cold Plate or reaction can be accurately controlled to the temperature set on the Atlas Base.

Hot and Cold Plate benefits

- **Easy to use:** The Hot and Cold Plate is connected to the Atlas Base using a bayonet fitting and is interchangeable with the standard Atlas Hot Plate.
- **Compatible with a range of accessories:** The Hot and Cold Plate has a standard diameter of 13.5 cm ($5\frac{5}{16}$ ""). This is compatible with the Atlas Stacking Dry Bath, Triple Dry Bath, Vial Baths, Orbit Parallel Reaction Station and virtually all other products designed to fit on hotplates.
- **Integrated stirring:** The Atlas Magnetic Stirrer module screws directly into the Hot and Cold Plate to provide high quality magnetic stirring.
- **Accurate temperature control:** The Hot and Cold Plate has an embedded RTD allowing feedback of plate temperature. Alternatively a PTFE coated RTD can be inserted in the reaction and that temperature controlled.
- **Easy connection:** The Hot and Cold Plate can be used with either standard M16 fittings or Atlas Quick Circulator Connectors which require no tools for a leak free rapid connection.
- **Icing issues minimised:** An integrated drip tray collects condensation and melting ice. Covers is also available to minimise ice build-up.
- **Chemically resistant:** The anodised aluminium plate provides a "wipe clean" surface.
- **Wide temperature range:** Fully tested between -40°C and 160°C .
- **Temperatures logged:** The temperature of the Hot and Cold plate is fully logged (as with all data on an Atlas System) and can be downloaded to a USB stick for offline analysis.

Hot and Cold Plate	2200047
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Insulating covers

Large Vial Bath Cold Cover 6 x 28mm dia	2200058
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Medium Vial Bath Cold Cover 8 x 20mm dia	2200057
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Small Vial Bath Cold Cover 12 x 17mm dia	2200056
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Circulators that can be controlled by the Atlas Base

The Atlas Base unit can be used to directly control the following circulators (note that other types of circulator can be controlled using the Atlas Software or used without feedback control).

- Huber Unistat 340
- Huber Ministat CC230
- Huber Tango Nuevo
- Julabo (All modern Julabo circulators can be controlled from the Atlas front panel).

Bronze Circulator (Julabo CF40)	2200001/2200011 US/ROW
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Silver Circulator (Julabo FP50-MC)	2200002/2200012 US/ROW
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Gold Circulator (Julabo FP51-SL)	2200003/2200013 US/ROW
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Left: The Atlas Hot and Cold plate offers temperature control from -40°C to $+160^{\circ}\text{C}$

Above: The Hot and Cold Plate shown with the quick circulator connectors

Right: A stacking Dry Bath on the Hot and Cold plate



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