



atlas

automated  
synthesis system

sodium

overhead stirred,  
round bottom flasks



Atlas simply does it all

## What is the Atlas Sodium?

**Atlas Sodium is an automated reactor system for round bottom flasks with overhead stirring and temperature control. It includes a Magnetic Stirrer (to 1200RPM) and a Scorpion Overhead Stirrer for viscous or heterogeneous reactions (to 800RPM). The Stacking Dry Bath and hotplate heat round bottom flasks from 50ml - 1 litre (to 280°C).**

### Atlas Sodium benefits

- **Rapid heating:** The advanced control algorithm heats faster than regular hotplates.
- **Accurate:** Exact control of reaction temperature is possible using PTFE dip in temperature probes.
- **High performance, flexible stirring:** Powerful overhead stirrer up to 800RPM or magnetic stirring up to 1200RPM.
- **Convenient:** Both single and multiple reactions can be controlled from the same system.
- **Flexible:** The Atlas Sodium can hold a variety of round bottom flasks ranging from 50ml to 1 litre.
- **Safe:** Round bottom flasks and vials can be heated up to 280°C, with the Dry Bath exterior remaining safe to touch.
- **Data logging:** All sensors are logged to one .csv file which can be downloaded to a USB stick.
- **Easy to use:** The quick clamp grips the neck of the flask with a single turn and aligns it to the Stacking Dry Bath. Round bottom flasks can be changed over quickly and safely.
- **Intelligent:** The Sodium system can control set points or sophisticated profiles of stirrer speed and temperature.
- **Robust:** Specifically designed for use in chemical laboratories.

### Atlas Sodium features

The Atlas Sodium System is designed for research and development chemists who demand high levels of control and ease of use.

The Atlas Sodium includes a Temperature Node and RTD Probe that plugs into the Atlas Base. The intelligent Base displays information in real time and logs all data to a .csv file which can be downloaded to a USB memory stick.



### Atlas Sodium System

An Atlas Sodium System contains:

Description	Part Number
Base Unit	2101000
Hotplate	2101001
Magnetic Stirrer	2101002
Scorpion Overhead Stirrer	2101004
Scorpion Overhead Stirrer Support (Sodium)	2101690
Temperature Node	2101021
Stirrer Seal and Guide	2101011
Clamp	2101040
Stacking Dry Bath	2101041
8mm Dia RTD Probe Holder	2101547
Support Rods (Pack of 2)	2101009
Stirrer - 2 Blade PTFE Centrifugal 300mm x 8mm	1802059
RTD Probe - PTFE Coated 300mm x 8mm	2101583

An Atlas Sodium System can be upgraded with:

- **Atlas Syringe Pump (2200072):** Automatic temperature dependant reagent addition.
- **Hot and Cold Plate (220047):** Temperature range of -40 to +160°C.
- **pH and Temperature Node (2200071):** For accurate, logged pH data or combine with pump for controlling the pH.
- **Upgrade to Jacketed Vessels:** Improve capacity and control with jacketed vessels by upgrading to the Atlas Potassium.



**Left:** The Atlas Sodium with a 1 litre round bottom flask

**Above:** The Atlas quick clamp holds and aligns a range of different vessel sizes

**Right:** The high performance, Scorpion Overhead Stirrer



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