



atlas

automated
synthesis system

potassium

controlled lab
reactor system



Atlas simply does it all

What is the Atlas Potassium?

The Atlas Potassium is designed for chemists who perform reactions in jacketed reactors from 50ml to 5 litres. Without the need for a PC, the intelligent base can control and log temperatures, stirrer speed and other sensors. The design allows vessels and stirrers to be changed in minutes.

Atlas Potassium benefits

- **Quick change vessel:** The oil drain unit, jacketed vessel clamp and quick oil connectors allow vessels to be changed in under a minute.
- **Automated reactions without PC control:** Set points, ramps, or sophisticated profiles are all possible for reaction temperature and stirrer speed.
- **Easy to upgrade:** A wide range of accessories are available including vessels, stirrers, probes, etc. See opposite.
- **Intelligent:** Atlas Potassium allows users to edit and run profiles automatically from the base to control, heating/cooling from circulator, stirring and reagent addition.
- **Easy to use:** No tools required, twist and click control knob, large display and intuitive.
- **Full data capture:** Data such as temperatures and stirrer speed is logged in a .csv file and can be downloaded to a USB stick.
- **Small footprint:** 23cm (9") square easily fits into fume cupboards.
- **Robust:** Specifically designed for use in chemical laboratories.
- **Wide temperature range:** -80 to +200°C.

Atlas Potassium System features

The Atlas Potassium is a flexible and interchangeable controlled laboratory reactor. With an easy to use vessel clamping system and integral oil drain module, Atlas Potassium vessels can be changed in under a minute.

Intelligent control without a PC from the base or advanced control from the Atlas Software makes Atlas truly versatile.



Atlas Potassium System

The Atlas Potassium can be configured into a variety of different systems for different applications. Syrris modules are automatically detected and other manufacturers hardware can be controlled and logged via RS232 using the Atlas Software.

An Atlas Potassium System can be upgraded with:

- **Volumetric Dosing:** Add the Atlas Syringe Pump for versatile volumetric dosing that consists of two syringes (pictured below) e.g. dose many reactors at a time or have temperature dependant dosing.
- **Gravimetric Dosing:** Allows a defined mass of reagent to be pumped from a balance to the reactor by a controlled peristaltic pump.
- **Calorimetry:** Use Heat Flow Calorimetry (HFC) or Power Compensation Calorimetry (PCC) to generate power and enthalpy graphs with the click of a button.
- **Software:** Adding PC Software allows complex recipe control, real time data plotting and control of third party hardware.
- **pH Control:** This can be configured to control the pH of a reaction by adding either acid and/or base as necessary to maintain a set pH value.
- **Turbidity Sensing:** Use the Atlas Turbidity system for processes that involve crystallization steps.
- **Remote Mount:** Allows jacketed reactors up to 5 litres to be mounted safely onto laboratory scaffolding and be remote from the base.



Left: Optional Atlas Turbidity Probe

Above: Atlas Jacketed Vessel, quick clamp

Right: The Atlas Potassium System



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