



atlas  
automated  
synthesis system

pump  
atlas syringe  
pump



Atlas simply does it all

## What is the Atlas Syringe Pump?

The Atlas Syringe Pump is a versatile volumetric dosing and/or sampling system. It allows 2 independent refilling flows, one continuous flow, reaction sampling, intelligent control of pH and temperature dependant dosing. It consists of two syringes and multi port valves and be controlled from the front panel, by a Reactor Master, an Atlas Base or PC software.

### Atlas Syringe Pump benefits

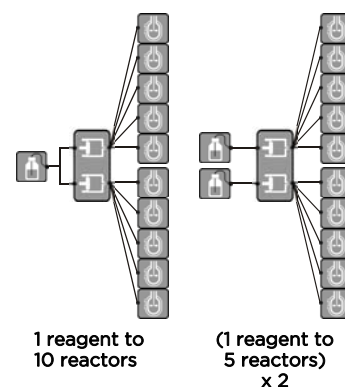
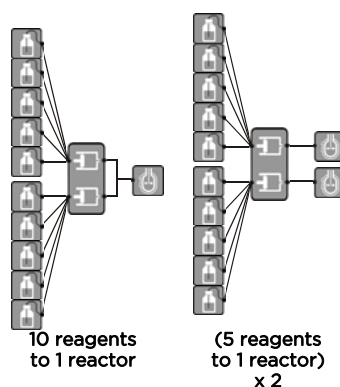
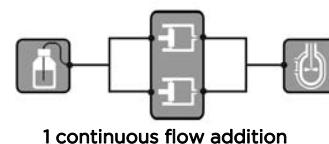
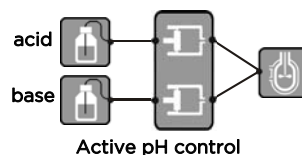
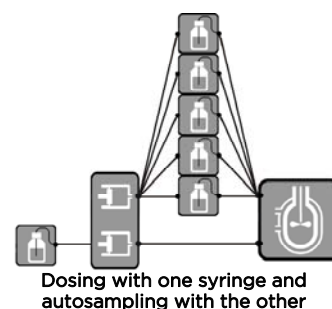
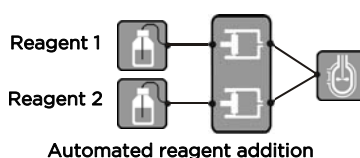
- **Flexible:** Use as 2 refilling pump channels or 1 continuous pump channel or an autosampler.
- **Easy to use on its own:** Twist and click control knob and large display.
- **Automated reagent addition:** Dispense simply by volume or flow rate over a time period or create advanced flow profiles.
- **Versatile:** 10 reagents to one reactor, 1 reagent to 10 reactors, 5 reagents to 2 reactors, one continuous flow, etc.
- **Automated reaction sampling:** Use with the Autosampler module to regularly aspirate samples into 2ml HPLC vials.
- **Wide flow rate range:** 0.5µl/min to 10ml/min (up to 100ml/min with the Atlas Syringe Pump XL)
- **Intelligent:** Pump to control pH or pause if a reaction temperature is exceeded. Full data logging to a csv file.
- **Compact size:** Fits conveniently alongside reactor.
- **Excellent chemical compatibility:** PTFE, PCTFE and glass.

### Atlas Syringe Pump Features

The pump can be used on its own, connected to a Reactor Master, an Atlas Base or controlled by a PC. In all modes, the two syringes (with up to 6 port valves) can be configured into a variety of configurations. As each port can be used to aspirate from or dispense to, the pump can be used as “one to many”, “many to one”, an autosampler or one continuous flow.

The pump can be connected to Atlas pH or temperature sensors to allow control of pumping based on these values. When connected to a Reactor Master or an Atlas Base, reagents can be added automatically after a temperature and stirrer speed has been reached or paused in the case of an exotherm.

### Examples of Operation



Left: The Atlas Syringe Pump

Above: The Autosampler module for use with the Atlas Syringe Pump

Right: The Atlas Volumetric Dosing System



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