

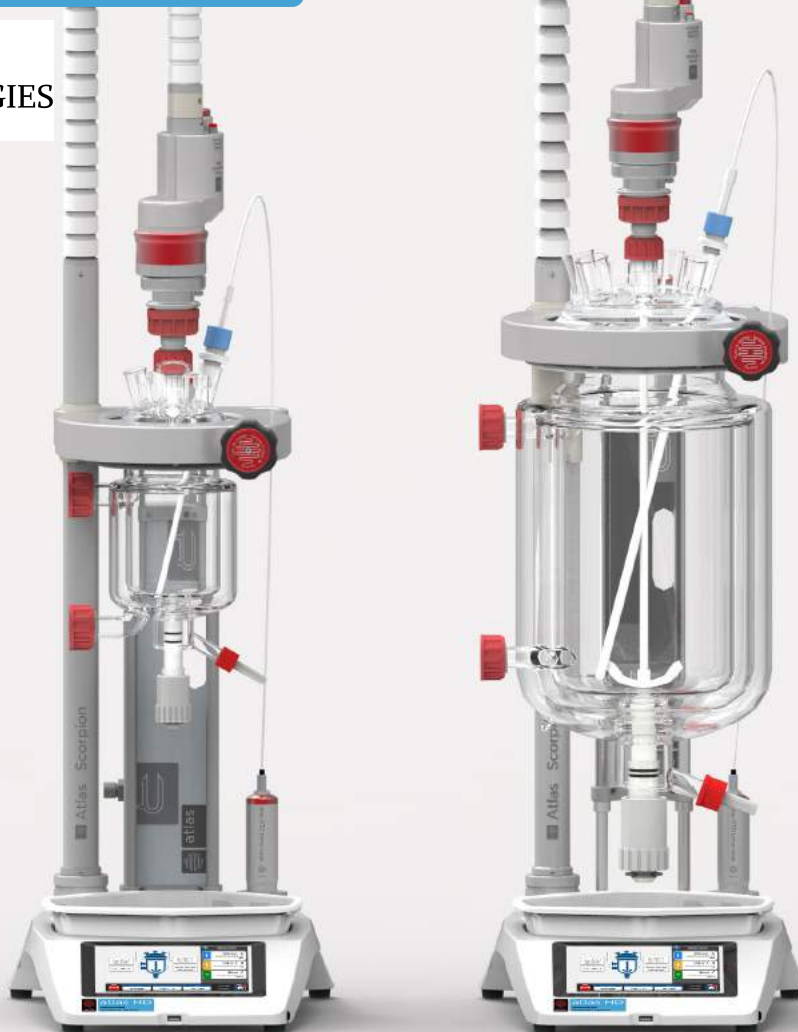


# atlas HD

automated  
synthesis system



SERLABO  
TECHNOLOGIES



new product » new product

Next generation jacketed reactor platform

# » atlas HD

**atlas HD is an automated, modular jacketed reactor platform from Syrris.**

**The platform offers intuitive control of chemical processes using the touch screen base.**

**atlas HD enables supreme flexibility with seamless interchangeability of jacketed reactors from 50ml to 5L.**

## Powerful automation

The intuitive touch screen for quick configuration and automation of the Atlas HD platform and circulators, stirrers, probes and Atlas pumps.

Easy setting, monitoring and changing of reaction parameters in real-time.

Automated process data capture and real time graphic display of data.

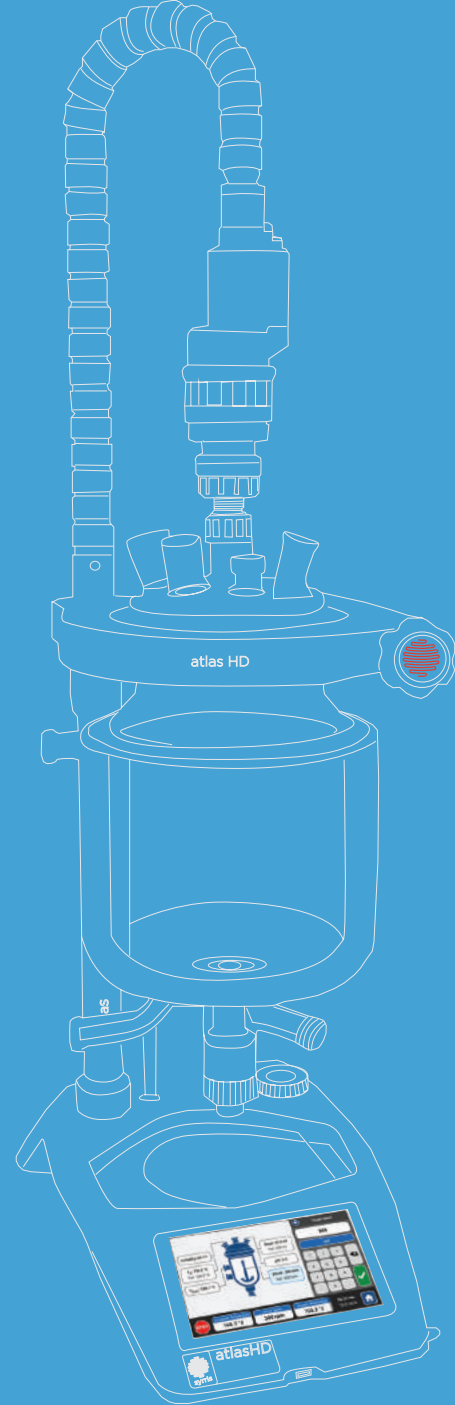
PC software for ultimate third party device integration and automation of processes.

## Flexible and easy to use

Atlas HD is an exceptionally flexible and easy to use jacketed reactor system. Wide range of easily interchangeable vessels from 50ml to 5L.

## Unrivalled service

Our team of experienced chemists and engineers are at your service to assist you with running your processes on our systems and provide continuous after sales support.



# modular

# » perfect your process

1

## Choose your vessel

Choose a vessel to suit your chemistry.



2

## Monitor your process

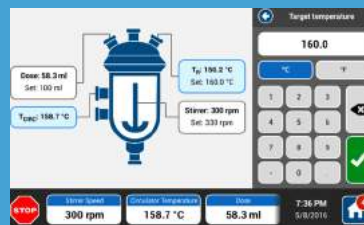
Choose your sensors: temperature probe, turbidity probe, pH probe.



3

## Set up reaction parameters

Enter your reaction parameters via the Atlas HD touch screen.



4

## Real-time reaction monitoring

Monitor and adjust reaction parameters, in real time.



5

Achieve unrivalled reproducibility and performance.

#enjoyyourchemistry

reliable

## » features and benefits

### Powerful stirring

Compact, auto aligning stirrer up to 800rpm.  
High torque and high speed options available

### Height adjustable stirrer seal

Chemically resistant stirrer seal and guide  
allows easy stirrer height adjustment

### Oil Pipes

For oil temperatures from -90°C to +250°C

### Quick connections

Thermal fluid connections made in seconds

### Wide range of stirrers

Different styles and lengths, glass or PTFE

### Bottom outlet valve

Spring loaded valve offers leak free sealing  
even at extremes of temperature

### Easy configuration of devices

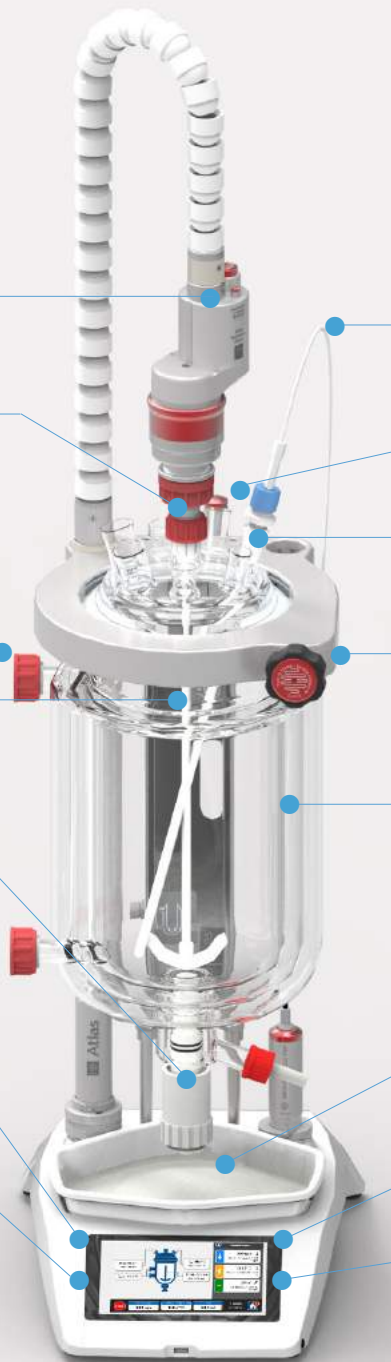
Simple configuration of sensors, circulator,  
stirrer, and other devices via the touch  
screen. Auto detection feature. Devices  
ready to use at plug-in

### Real-time measurements

Monitor and change reaction parameters in  
real-time via Atlas HD touch screen

### Atlas Syringe Pump control

Connect the Atlas Syringe Pump to  
coordinate control of additions with  
temperature and stirring profiles



### Wide range of sensors

Temperature probes, pH sensors, turbidity  
probes etc. with localized calibration

### Oil drain unit

Press button to drain thermal fluid

### 7 Port Lid

A wide range of port sizes in both vertical  
and compound angle configurations

### Full vessel range on a single system

Simple vessel height adjustments together  
with clever clamping solutions allow full  
vessel range to be used on a single system

### Wide range of vessels

50ml, 100ml, 250ml, 500ml, 1L, 2L and 5L  
with a range of profiles, with or without a  
vacuum jacket

### Drip tray

For protection from spillages

### Data logging and display

Automated data logging ensures  
safekeeping of data. Live graph  
visualization allows direct and quick  
monitoring of reaction parameters

### Control via touch screen or PC

Control of chemical processes via the  
touch screen. Add Atlas PC Software for  
additional functionality such as calorimetry,  
gravimetric dosing and more

## » applications

Process Development  
Reaction Optimization  
Advanced Synthesis  
Reaction Calorimetry  
Crystallization

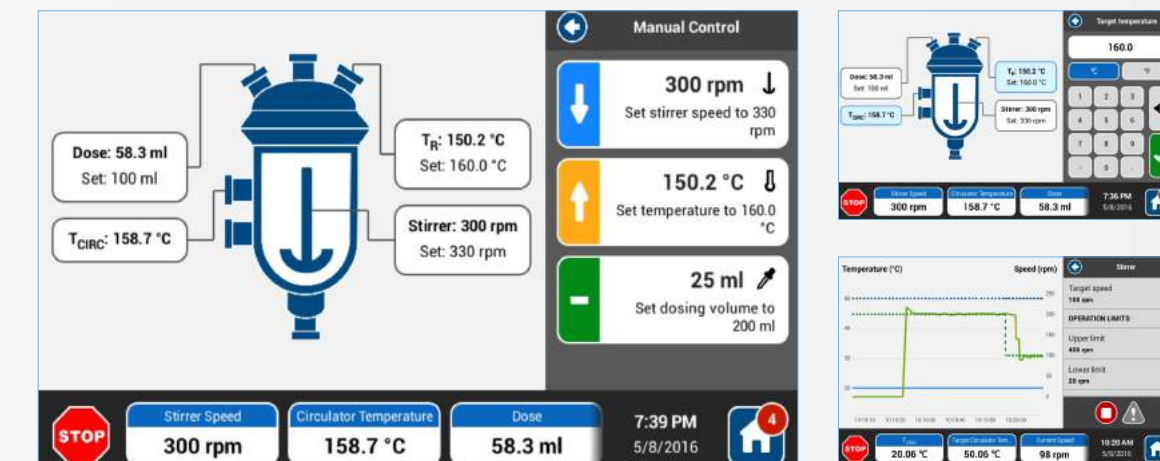
## Modularity

The modularity of Atlas HD platform  
allows combination of various  
functionalities e.g. reaction calorimetry  
with gravimetric dosing and pH  
sensing or sonocrystallization  
with volumetric dosing and  
turbidity sensing.



#enjoyyourchemistry

## » process control



## » specifications

**Vessel sizes:** 50ml, 100ml, 250ml, 500ml, 1L, 2L (DN80)  
1L, 2L and 5L (DN150)

**Vessel profiles:** A range of profiles with or without a vacuum jacket

**Stirrer options:** Anchor, pitched blade propeller, retreat curve (in glass or PTFE),  
custom available on request

**Temperature range:** -90°C to 250°C (with suitable seal kit)

**Overhead stirring:** Scorpion Overhead Stirrer up to 800rpm with 11Nm torque. High torque, high  
speed and torque feedback options available

**Modes of operation:** Atlas HD touch screen or PC Software



# » what do our customers say

“Our Atlas reactors are in use every working day, and the system is very reliable. It offers great reproducibility.”

Supabhorn Korboonsungserm  
Researcher in Process Technology, PTT, Thailand

“The Atlas reactor platform is extremely flexible, powerful and user-friendly.”

Dr. Sunil S. Nadkarni  
VP Product Development, Torrent, India

“The interchangeable features of the Atlas also allow us to change the scale of processes easily.”

Matthew Cantelo  
Laboratory Chemist, Ceram, UK

“It is a reliable and reproducible reactor system that is well assembled, compact and portable.”

Justin Barry, CEO, Midatech, Spain

“We purchased two Atlas systems, and are delighted with their performance, ease of use and flexibility.”

Dr. David Easson, VP Manufacturing and Process Dev., Epic Therapeutics, Baxter Healthcare, USA

“We are also very impressed with the speed and quality of the service and support.”

Dr. Phil Peach, Process CRD, Pfizer, UK



**Atlas HD is designed and manufactured by Syrris, the world's most advanced provider of laboratory scale chemistry systems.**

**Syrris' network of offices in the UK, USA, Japan, India and Brazil plus over 35 distributors worldwide offer local service and support.**



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