

PolyBLOCK

Increase Productivity

Run 4 separate experiments at once



Parallel Synthesis with PolyBLOCK

Designed to **maximise your laboratory's productivity**, PolyBLOCK is an easy to use, flexible and compact multi-reactor system, featuring:

- | **4 independent reactors** running at the same time
- | Wide range of **interchangeable vessels** (from 2ml to 500ml)
- | **Wide temperature range** (-60°C to +225°C)
- | **Excellent agitation** of liquids and slurries using mechanical stirrers, even WITHOUT overhead motors
- | **Expansion capabilities** including liquid dosing, pH, solubility and calorimetry

Ease of use

- | Reactor **contents visible** during most experiments
- | Coolant needed only for **low temperature** operations
- | Add-ons to simplify reactor **inerting, reflux and sampling**
- | **Intuitive software** on touch screen (or PC)
- | Standard and custom **adapters enable quick vessel exchange**



Productivity

- | **Save laboratory space** with compact design (size of a shoebox)
- | **Free-up user time** with unattended, safe operation
- | **Ease scale-up** and save repeat work with reproducible results
- | **4 x output** with 4 independent reactors, well suited to DOE campaigns

PolyBLOCK product specifications

Temperature range	-60°C to + 225°C
Temperature mode	Jacket control, reaction mixture control, distillation (constant or ramp)
Reactor sizes	Any vessels from 2ml to 500ml, standard or custom
Stirring	Built in "suspended" magnetic stirring. Overhead stirring optional
Dimensions	35cm x 20cm x 20cm
Data handling	Real time monitoring, featuring graphical and numerical displays
Data transfer to PC	Via Ethernet/wifi connection/USB, .csv file format
Connectivity	RS232, Ethernet
Control	WinISO Software, Integrated electronics
Additional options	pH, Turbidity, Calorimetry, liquid dosing, gas feed, liquid sampling

Flexibility

- | Metal (high pressure, **up to 200bar**) and glass vessels available
- | Wide temperature range **(-60°C to +225°C)**
- | Add **pH, solubility, calorimetry, liquid dosing**, to adapt to your application
- | Choice of reactor sizes and shapes **(2ml to 500ml)**



PolyBLOCK users include:

- Pfizer
- Novartis
- Eastman
- Merck
- GlaxoSmithKline
- Bayer
- Biogen Idec
- AstraZeneca
- Boehringer Ingelheim
- BP
- Sigma Aldrich
- Nycomed
- Rhodes Technologies
- Grunenthal
- Isochem
- PCAS
- Celgene
- Vertex
- Arrow Therapeutics
- Robinson Brothers
- Sanofi Aventis
- Cardiff University
- Texas A&M University
- The University of Warwick
- Amherst University of Massachusetts
- Universiteit Leiden
- and many more...

What our customers say about PolyBLOCK

“**Experimental design** is made much **easier** with the PolyBLOCK; the ability to control parameters for four different reactors independently and accurately means we **can quickly and easily obtain information from our work**, and in a logical way. The .csv data file format means we can **analyse the data easily** too.”

“Using the PolyBLOCK has meant that we have reduced our consumption of solvents and reagents, **saving us money.**”

“Because of its modular design **we can add and upgrade as our needs develop** – we’ve upgraded twice since we purchased and added real value to our process.”

“The PolyBLOCK has given us **a higher level of experimental reproducibility** in contrast to our manual methods. **Development times have been significantly reduced** because we can run four reactions at the same time and as a consequence of the use of recipes, reactions can be performed 24 hours a day.”

“The PolyBLOCK has allowed us to **increase our productivity** and saved us a lot of time.”

“The PolyBLOCK units have become key tools in our facility **enabling us to take on more work** and giving our clients high quality data very quickly.”

“The PolyBLOCK has represented a great step forward in our laboratory **allowing us to reach our goals quickly with enhanced data quality**. Reproducibility has increased since the need for manual intervention has decreased.”

“The **intuitive software interface** and sheer versatility means that we can use the PolyBLOCK in a range of applications. Its a great value tool!”

“One of the things we like about the PolyBLOCK is that **it’s so easy to use**. This is a key factor when you have a mix of people working in the lab. My entire team became confident with using the PolyBLOCK from day one.”

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