myra+

Automated qPCR System

Sample | Setup | Analysis | Result

bms
bio molecular systems

Made for extraordinary life

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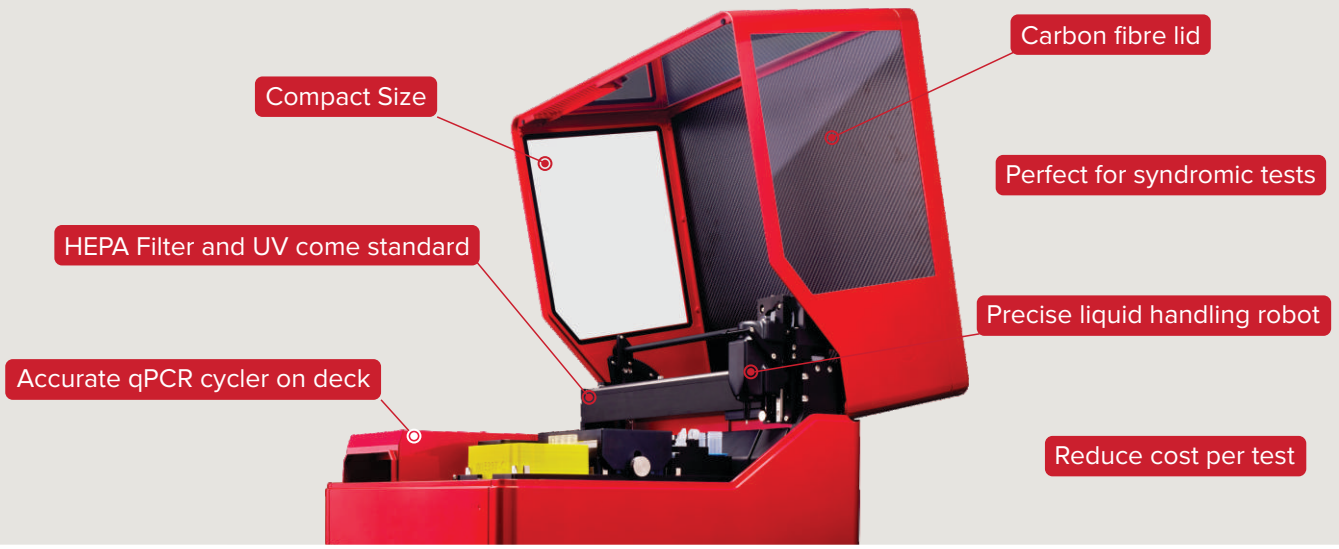
Automated qPCR System

Combining next generation qPCR technology with state of the art liquid handling hardware. The Myra+ is an automated molecular instrument ideal for any lab or researcher.

Sample to Answer



Sample Prep

Myra+ is equipped to handle your sample preparation needs, whether you're using standard magnetic-based extraction methods or going directly to PCR.

The device is versatile enough to process various sample formats. For samples that include swabs, Myra+ is uniquely designed to prevent collisions by automatically pushing the swab aside, ensuring smooth operation.

V-caps

Our proprietary V-cap tubes simplify the process of loading qPCR reactions directly into the on-deck Mic cycler. The design uses centrifugal force to push the liquid through an aperture in the cap and into the tube, beneath the pre-filled oil, ensuring efficient and accurate sample processing.

Open Platform

There's no need to be confined to costly micro-fluidic cartridges. Experience flexibility with your assays and protocols with Myra+.

Features include:

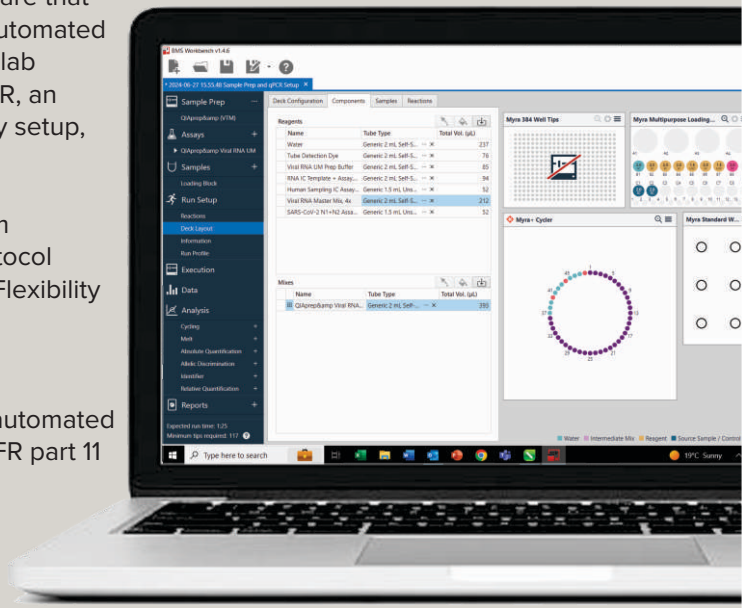
- Vortex mixing
- Multi-tube aspiration
- Film piercing
- Extensive consumable library
- Lyophilized reagent compatible

Intuitive Software

The Myra+ boasts software that stands out from other automated platforms. For standard lab operations such as qPCR, an intuitive UI enables easy setup, running, and analysis.

Create your own custom protocols using our protocol development function. Flexibility without the complexity.

LIMS compatibility, user permission levels, and automated analysis functions. 21 CFR part 11 compliant.



qPCR Runs

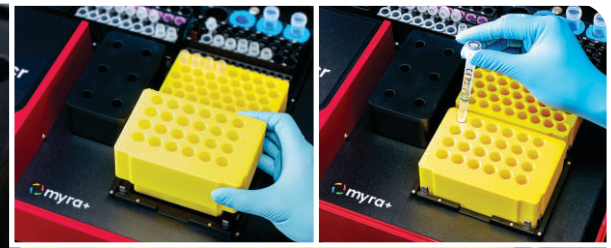
Samples and reactions are loaded directly into the V-cap tubes within the on-deck Mic qPCR cycler. The system is designed to monitor for the presence of tubes and prevent the loading of tubes that might contain the previous run reactions, thereby avoiding contamination issues.

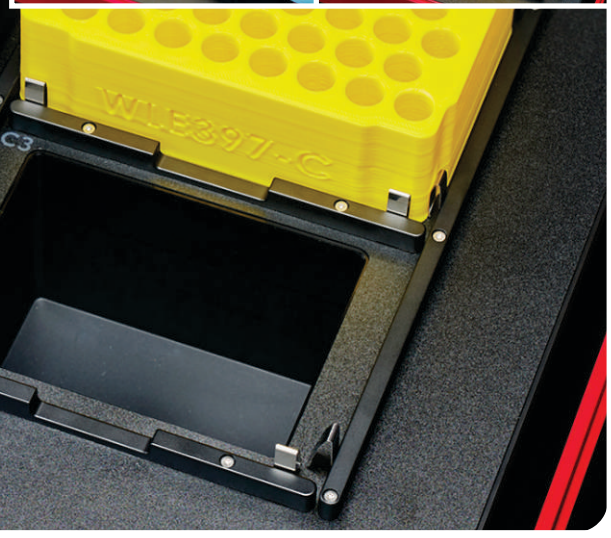
Accessories

Most of the SBS positions feature deep sockets, accommodating deeper wells and longer tubes.

We offer a variety of adaptors to fit numerous tube and plate types.

Our in-house 3D printing capabilities allow us to custom-design new block types to fit unique tubes or plates.





Specifications

468 mm

18 kg

520 mm

		Closed loop, 100 µm resolution
		Pressure sensing
		High precision camera
		Single or multi-dispense

Communication	Connection type	USB 2.0
	Min. PC requirements	Intel Core i5 or equivalent 8 GB RAM, 1 GB disk space 1366 x 768 display

Environment	Temperature range	18 - 30°C
	Humidity range	20 - 80%

Pipette	Volume	1 - 50 µL
	Tips per rack	384
	Precision	1 µL 5% CV 5 - 50 µL 1% CV
	Accuracy	1 µL < 10% 5 - 50 µL 1%

Contamination control	Tip disposal	Internal enclosed waste tub
	UV decontamination	High intensity 70 mW 280 nm UV LED
	HEPA air filtration	99.98% at 0.3 µm

Thermal Performance	Temp. accuracy	± 0.25°C
	Temp. uniformity	± 0.10°C
	Sample ramp rates	Heating: 4°C/s Cooling: 3°C/s
	Temperature range	35 - 99°C (40°C min when cycling)

Optical	Detectors	4x Photodiode
	Excitation sources	4x High energy LED
	Acquisition time	1 s

Reaction Vessels	Samples per instrument	48
	Reaction volume	5 - 25 µL

Designed and manufactured in Australia by

bms bio molecular systems

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