

Respirometer Systems – features comparison

	Gas Endeavour® III	AMPTS® III	BPC® Blue	BioReactor Simulator (BRS) III
Test lines	1	9	18	18
Data storage	Up to 130 000 l (30 000 l with 2 ml flow cells) of gas can be stored per channel	Up to 15 000 l (3400 l with 2 ml flow cells) on average of gas can be stored per channel	Up to 7500 l (1700l with 2 ml flow cells) on average of gas can be stored per channel	Up to 7500 l (1700l with 2 ml flow cells) on average of gas can be stored per channel
Analog control	Yes, possible to start and stop experiments using button on instrument	No, requires access to software via computer or other smart devices with standard web browser	No, requires access to software via computer or other smart devices with standard web browser	No, requires access to software via computer or other smart devices with standard web browser
Display	Presents gas flow & volume data and instrument status	Presents only instrument status	Presents only instrument status	Presents only instrument status
Measurement resolution	2 and 9 ml	2 and 9 ml	2 and 9 ml	2 and 9 ml
Operation mode	Batch and continuous	Batch and continuous	Batch and continuous	Batch and continuous
Software	Embedded software accessed with web browser. No installation needed	Embedded software accessed with web browser. No installation needed	Embedded software accessed with web browser. No installation needed	Embedded software accessed with web browser. No installation needed
Internet access needed	Not necessary	Not necessary	Not necessary	Not necessary
Remote accessibility	Seamlessly connect through local networks and the Internet	Seamlessly connect through local networks and the Internet	Seamlessly connect through local networks and the Internet	Seamlessly connect through local networks and the Internet
Maintenance	Easy maintenance. Most parts can be replaced without the need to ship instrument to the manufacture or a regional service center	Easy maintenance. Most parts can be replaced without the need to ship instrument to the manufacture or a regional service center	Easy maintenance. Most parts can be replaced without the need to ship instrument to the manufacture or a regional service center	Easy maintenance. Most parts can be replaced without the need to ship instrument to the manufacture or a regional service center
Gas types that can be measured	Most nonaggressive gases, e.g., biogas, methane, carbon dioxide, nitrogen gas, hydrogen gas, etc.	Most nonaggressive gases, e.g., biogas, methane, carbon dioxide, nitrogen gas, hydrogen gas, etc.	Most nonaggressive gases, e.g., biogas, methane, carbon dioxide, nitrogen gas, hydrogen gas, etc.	Most nonaggressive gases, e.g., biogas, methane, carbon dioxide, nitrogen gas, hydrogen gas, etc.
Gas collection possible	Yes	Yes	Yes	Yes