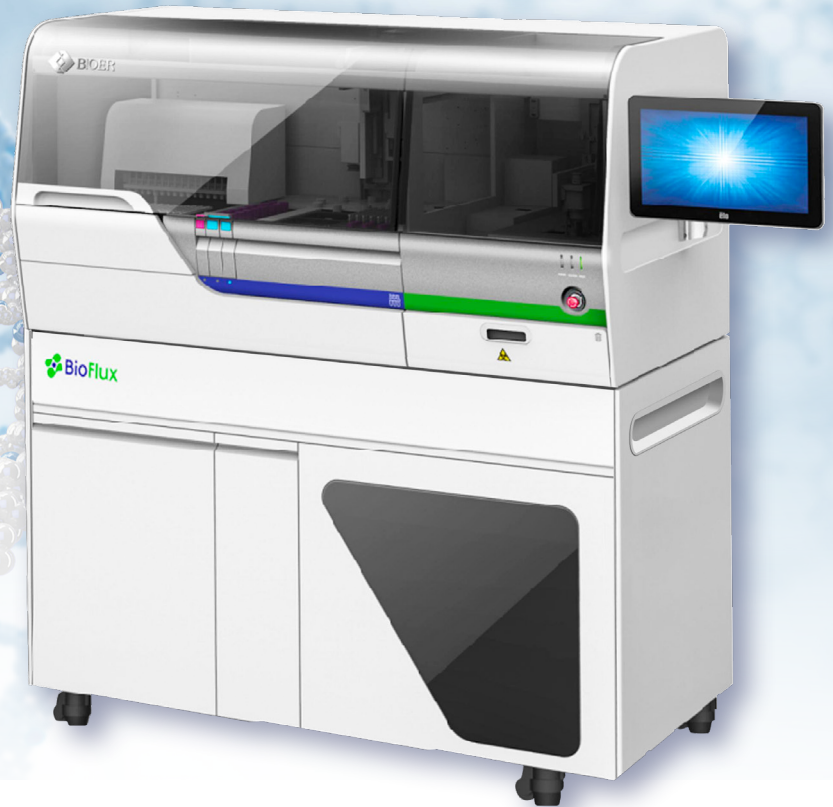




Automated Nucleic Acid Purification and Real Time PCR System

FQD-A1600



Samples In ▶

◀ Results Out

Fully Integrated

Implementation: The whole automated process of sample pre-treatment + nucleic acid extraction + fluorescence quantitative PCR

Absolute Efficiency

Drive laboratory efficiency in a number of ways, the first round results will be completed within 1 hour and the next round results will be issued every 30 minutes

Anti-Pollution

Fully enclosed design, unique sample processing unit, minimizes contamination

Unmatched Flexibility

Touch - controlled interface, full automatic result analysis, easy to operate

Product Introduction

In order to lead the market development trend, meet the demand of PCR detection of automation, Bioer technology developed Automated Nucleic Acid Purification and Real Time PCR System, realized the: "sample pre-treatment + nucleic acid extraction + fluorescence quantitative PCR" of the whole experiment process, can help you meet the growing needs of your lab with highly efficient workflows, from sample processing to result interpretation, fully enclosed pollution prevention design, the maximum guarantee the stability of high efficiency and results of the experiment process. At the same time, the low throughput design with continuous sample addition can meet the needs of different types of customers for flexible testing.

Product Parameters

Product Name	Automated Nucleic Acid Purification and Real Time PCR System					
Model	FQD-A1600 (EA4), FQD-A1600 (EA5), FQD-A1600 (EA6)					
Sample throughput	16 (applies to sample storage tubes, vacuum blood collection tubes, 1.5 ml and 2 ml centrifuge tubes, measuring cups, etc.)					
Pipetting performance	Under 5 μ L: Accuracy $\leq \pm 5\%$, repeatability $\leq 5\%$					
	5 μ L to 10 μ L: Accuracy $\leq \pm 5\%$, repeatability $\leq 3\%$					
	10 μ L to 50 μ L: Accuracy $\leq \pm 3\%$, repeatability $\leq 1.5\%$					
	Over 50 μ L: Accuracy $\leq \pm 2\%$, repeatability $\leq 1\%$					
Nucleic acid purification processing volume	20-1000 μ L					
Magnetic bead recovery efficiency	$\geq 98\%$					
Purification pore variance	CV < 3%					
PCR reaction system	5-30ul					
Detection channel	F1	F2	F3	F4	F5	F6
Applicable dyes	FAM, SYBR Green I	VIC, HEX, TET, JOE,	ROX, TEXAS-RED	Cy5 Quasar -670	Cy5.5 Quasar -705	Cy3 Tamra
Module working temperature range	4 - 99.9 $^{\circ}$ C (minimum setting scale: 0.1 $^{\circ}$ C)					
Average heating rate	From 50 $^{\circ}$ C to 90 $^{\circ}$ C, should not be less than 8 $^{\circ}$ C/s					
Average cooling rate	From 90 $^{\circ}$ C to 50 $^{\circ}$ C, should not be less than 5 $^{\circ}$ C/s					
Module temperature control accuracy	Should not be greater than 0.1 $^{\circ}$ C					
Temperature uniformity	Temperature difference is within 0.4 $^{\circ}$ C					
Fluorescence intensity detection repeatability	CV $\leq 1\%$					
Input power	220V 50Hz 2800VA					
Overall dimensions	1850mm \times 730mm \times 1530mm (length, width, height)					

*Data tested at standard laboratories.