



BIOne Mixing System

Standardized and Automated Mixing

bione@distekinc.com



The **BIOne Mixing System** is an Advanced Platform Designed for Cell-Free and Small Volume Mixing Applications

The BIONe Mixing System offers laboratory scientists a sophisticated, yet reliable and user-friendly small volume mixing platform for a diverse range of cell-free mixing applications. Built on the proven technology of the flagship BIONe 1250 Bioprocessing Controller, the BIONe Mixing System delivers precise & accurate agitation and temperature control while supporting seamless integration with advanced process analytical technologies for enhanced monitoring and optimization.

RELIABLE CONTROL

The BIONe Mixing System delivers reliable mixing and temperature control in both single-use and autoclavable vessels under extreme conditions. Magnetic drive agitation and direct temperature control support robust scale-down models.



VERSATILE

The BIONe Mixing System supports a variety of cell-free applications, from Enzymatic and mRNA reactions to buffer and media prep, filtrate collection and final fill. Distek vessels enable scalable processes based on power per unit volume.



EASY-TO-USE

Designed with an intuitive touchscreen interface, the BIONe Mixing System is easy to learn and operate, allowing for quick mastery of the system. This allows you to focus on the research rather than the equipment setup.



Helping Science Improve Lives

Advanced Control and Monitoring for **Optimal Mixing**

ASEPTIC MIXING AVAILABLE WITH SINGLE-USE VESSELS

The gamma-irradiated BOne Single-Use Vessels used with the BOne Mixing System are made from USP Class VI materials and assembled in Distek's ISO-7 certified cleanroom, significantly reducing contamination risk compared to glass vessels.

FULLY AUTOMATE YOUR CELL-FREE PROCESS

The BOne Mixing System offers fully automated control of mixing speed, pH, and temperature, with unlimited storage for programmable recipes to streamline and standardize your mixing process.

COMPREHENSIVE MONITORING CAPABILITIES

The BOne Mixing System captures data every 30 seconds for easy trending and export to offline analytical software tools. The additional I/O option enables advanced process characterization by integrating sensors for conductivity, turbidity, pressure, and more.



LEARN MORE ABOUT THE BOne MIXING SYSTEM

For more information or to schedule an in-person or virtual demonstration, contact our BOne team at bione@distekinc.com. We're dedicated to help you find the right solution.

BIOREACTOR INTERFACE	12.1" (30 cm) Capacitive touch screen	
REMOTE ACCESS	Remote viewing and control with optional OPC license	
DATA STORAGE	Over 30 days of local data storage & trending	
BIOREACTOR WORKING VOLUME RANGE	Autoclavable glass Single-use	0.75L - 10L 0.9L - 10L
AGITATION TYPE	Magnetic drive	
AGITATION RANGE	Autoclavable glass / SUF Single-use bioreactor (SUB)	15 - 1250 RPM up to 5L, 15 - 900 RPM in 10L 15 - 450 RPM
GAS CONTROL	Unavailable	
TEMPERATURE CONTROL	Autoclavable glass Single-use	4°C with chiller to 80°C 4°C with chiller to 60°C
TEMPERATURE RESOLUTION	0.1°C	
DO MEASUREMENT	Analog or optical (measurement only)	
DO CONTROL RANGE	0 - 200% (measurement only)	
pH MEASUREMENT	Analog or optical	
pH CONTROL RANGE	pH 2 - 12	
REDOX MEASUREMENT	Analog	
REDOX CONTROL RANGE	(-) 2000mV - (+) 2000mV	
PUMPS	1 variable speed pump. Tubing range from 0.8mm ID to 6.4mm ID	