

THE SIMPLEST SINGLE-USE BIOREACTOR SYSTEM ON THE MARKET TODAY!



BIONE

SINGLE-USE BIOREACTOR SYSTEM

You don't need to make a large capital investment to **convert your existing benchtop glass bioreactor to a single-use bioreactor**. Simply remove your existing headplate and place the preassembled and irradiated Distek BIONe System into the glass vessel. The "patent pending" bioreactor liner will mold to and mimic your existing glass system allowing you to continue using your existing cabinet, probes, motor, heating jacket and recipes. Since the liner conforms to the dimensions and aspect ratio of your existing vessel, there is no need to change your process. All wetted components are USP Class VI, animal derivative free and utilized in existing single-use products.

- **"PATENT PENDING" SINGLE-USE LINER & HEADPLATE**

The BIONe Single-Use Bioreactor system is designed for mammalian cell culture applications. The "patent pending" design consists of a pre-sterilized assembly which fits into an existing glass vessel and contains all of the components of your existing glass system including:

- Probe Ports
- Addition Ports
- Thermowell Port
- Prefitted, Weldable TPE Tubing
- Vent Filter and Gas Inlet Filters
- Sampling Port and Harvest Line
- Flute, Microsparger or Open-pipe Sparger
- Pitched Blade Impeller

- **MULTIPLE SENSOR PORTS**

The single-use headplate contains four probe ports including:

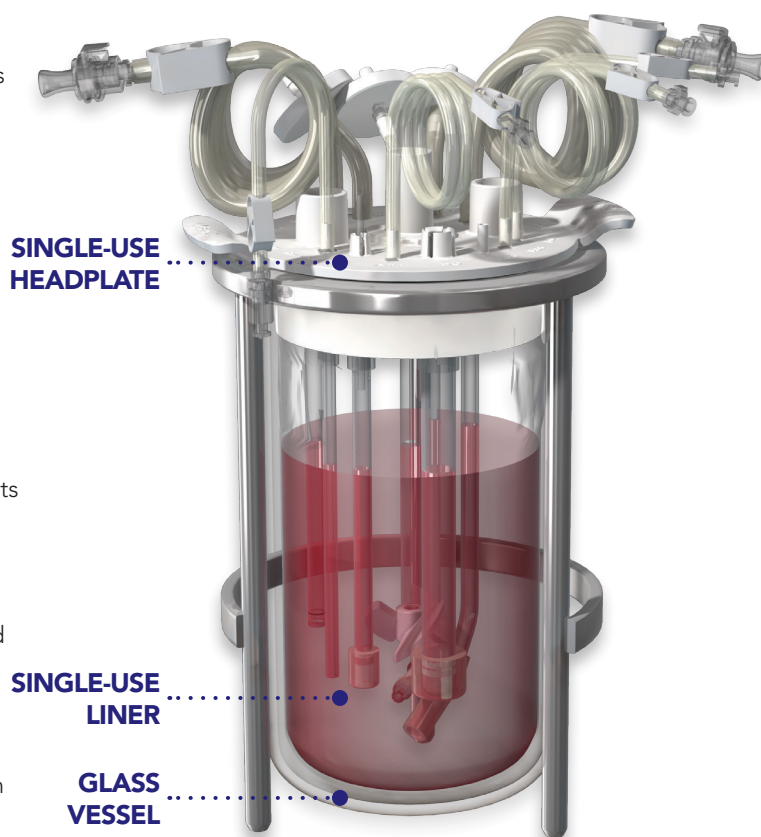
- Non-invasive DO sensor port
- Non-invasive pH sensor port
- Two universal sensor ports which can be utilized for 12mm CO₂, DO, pH, biomass, glucose, etc.

- **INCREASED THROUGHPUT**

Converting your existing glass bioreactor to a single-use bioreactor using Distek's BIONe system increases throughput by eliminating assembling, cleaning and autoclaving effectively reducing turn-around time between runs. Simply unpack the BIONe Single-Use Bioreactor System, place it into your glass vessel, insert your probes and you're ready to batch and inoculate!

- **BIOREACTOR COMPATIBILITY**

The BIONe Single-Use Bioreactor system is compatible with most manufacturers' glass vessels including: Applikon, Sartorius, Broadley-James, Finesse, Infors and more.



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SPECIFICATIONS

	2 LITER BIOne	5 LITER BIOne
Working Volume (L)	2L	5L
Glass Vessel Compatibility (L)	3L	7L
Materials:		
Tubing	AdvantaPure, Saint Gobain C-Flex®, TPE	
Plastic	Polyethylene, Polycarbonate	
Liner	ULDPE Contact Layer, EVOH Barrier and LDPE Outer Layer	
Filters (Inlet / Outlet)	(2) ZenPure Inlet (0.2µm PE Filter, 25mm) / (1) ZenPure Outlet (0.2µm PE Filters, 50mm)	
Non-Invasive Probe Ports	2 (One DO and One Optical pH)	
Universal Ports*	2	
Addition Ports	5 (4 Small and 1 Large)	
Thermowell Port	Up to ¼" RTD	
Sample Port	1 (Needleless Connector)	
Harvest Line	1	
Sparger	Flute (7 holes x 1.5mm), Microsparger (20-40µm pore size) and Open-pipe Sparger (3.2mm hole)	
Sterilization	Gamma Irradiated to Greater than 25 kGy and Less than 40 kGy	

*Universal sensor ports are compatible with 12mm probes for CO₂, DO, pH, biomass, glucose, etc.

SINGLE-USE HEADPLATE CONFIGURATION

