

# NEW BIOTECH ON-LINE DEGASSER

On-Line degassing has been shown to be more effective at removing dissolved gas from mobile phases than sonication or helium-sparging.

Up to five solvent lines can be degassed simultaneously by one unit. The extremely low volume of each Teflon® AF channel (480 microliters) offers very quick equilibration and very short start-up times.

### Teflon® AF is 50X more permeable than the Old Teflon® PTFE

The new Teflon® AF membrane outperforms the older Teflon® PTFE membranes used in many other degassing systems today. This translates into the ability to use shorter tubing for removal of dissolved gases.

- Considerably shorter equilibration / re- equilibration times
- Very easy to prime.
- Short vacuum pull-down times, typically 3 minutes.
- Teflon AF has the ability to remove pre-pump bubbles formed by cavitation vs bubbles formed by off-the-floor eluent reservoirs are less of a reliability issue.

### Vacuum Pump Technology

We introduce the ZHCR® (Zero Hysterisis Constant Run) stepper motor driven vacuum pump, specifically designed and developed for membrane degassing of HPLC mobile phase.

Employing a micro-stepping closed-loop vacuum control strategy permits the pump to maintain a constant vacuum level set-point (50 mmHg) by varying the RPM of the stepper motor. The pump initially runs at a high speed which provides for a quick pull-down and, as it approaches the vacuum control point, the RPM is gradually reduced until the desired vacuum level is reached. This patented control strategy allows the On-Line Degasser to maintain a virtually constant vacuum that is unaffected by varying degassing loads. As a consequence, fluctuations in baseline due to vacuum hysteresis are eliminated by not having the pump repeatedly stop and start as is done in many older and existing systems.

- Extremely quiet operational noise.
- Long life Expectancy - 5 years continuous run.
- Pump head purge eliminates need for purge valve.
- Eliminate baseline fluctuations due to the vacuum pump.
- Short vacuum pull-down times, typically 3 minutes.
- Closed loop vacuum control means constant vacuum (variable RPM).
- Advanced error and leak checking functions.



## GENERAL SPECIFICATIONS

Number of channels:	4 or 5
Internal Channel Volume:	480 microliter
Wetted Parts:	Peek and Teflon AF
Height:	5.0 in. (127 mm)
Width:	2.87 in. (73 mm)
Depth:	9.81 in. (249 mm)
Power:	15 to 24 VDC @ 0.85 A max. (0.5 A typical)
Weight:	6 lb (2.7 kg)