

## Gradient & Fractionator Systems

**Gradient Master™**



**Gradient Station™**



**BioComp Instruments, Inc.** develops, manufactures and markets world renowned and unique systems for centrifugation gradient forming, fractionation and analysis.

**The Gradient Master™** generates **linear gradients** using our patented process called tilted tube rotation. Gradient preparation is easy, effortless, precise and highly reproducible. It involves layering the two end point solutions (i.e. 5 % and 30 % sucrose) directly in the centrifuge tube, capping it and placing it in a tube holder magnetically attached to a tilting rotary plate of the instrument. The instrument tilts the tube to a precise angle, rotates it for a designated time and returns it to its original vertical position. **You can easily produce 6 identical, linear gradients in less than two minutes.** The current model 108 represents the 4th generation of **Gradient Master™**. A digital keypad facilitates entry of new gradients, whether developed by the user or by BioComp. Upgrades of the device-controlling software are downloadable from the Internet. User can benefit from optimized parameters of hundreds of different gradients and the list is still growing. **Whether your gradients use sucrose, glycerol, Optiprep®, Nycodenz®, Ficoll®, Percoll®, Metrizamide, Renografin®, NaCl, CsCl, NaAc or KCl, the Gradient Master™ has never met a solute it didn't like.** If you are serious about your gradient work, there is no alternative for the Gradient Master™. In nearly 2,000 labs, it has become the world's gradient former of choice because of its simplicity, incredible speed and durability.

**The Piston Gradient Fractionator™** breaks your gradients down into fractions for further analysis after centrifugation. Features include light scattering band visibility for documentation and individual band recovery, precise distance-based fractionation with 10 µm resolution, and air and liquid injection into the piston tip to remove residual sample and clean the tubing between fractions and runs.

**The Gradient Station™** - **This hybrid instrument performs both gradient forming and fractionating.** It is an economical instrument that comprises two distinct patented instruments, the **Gradient Master™** and the **Piston Gradient Fractionator™**, combined into one compact, fully functional hybrid. The performance of these two elements is identical to the original instruments.

**The Triax™ Flow Cell** is a newly developed and patented detector for the Piston Gradient Fractionator™ and the Gradient Station™. It provides the ability to record UV absorption as well as fluorescence detection. Depending on the detector configuration, up to three UV/VIS/Fluorescence channels/wavelengths can be used simultaneously in the same gradient, offering the best precision in the overlay. The absorbance data are linear from 0 to 5 OD at .0001 OD resolution, with a non-linear response to an absurd 20 OD. The design eliminates bubbles and automatically aligns the profiles at the start of the run. The Triax™ can pulse the flow cell with visible light to excite your favorite fluorophore: EGFP, mCherry, Alexa 488, 555, 568, Cy2, 3, 3.5, 5, mKate2 and many others, simultaneously recording the UV and fluorescent profiles, the first in a biological research.



**Biologicals s.r.o.**

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