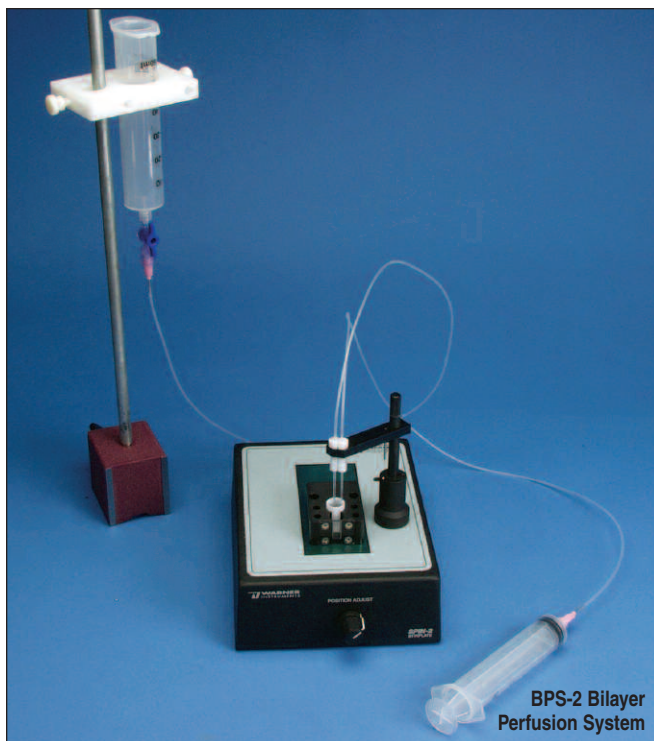


bilayer workstation

BPS-2 and LPF-8

Bilayer Perfusion System and 8-Pole Bessel Filter

An easy to use perfusion system that helps reduce membrane breakage



BPS-2 Bilayer Perfusion System

Bilayer Perfusion System

- Complete gravity-feed system
- Quiet operation
- High volume flow rates possible
- Includes everything shown (except for the cup, chamber, and stirplate)

The BPS-2 Bilayer Perfusion System from Warner Instruments provides a simple and straightforward way to exchange solutions in either the bilayer cup or the chamber. The magnetic base holds the perfusion head ready for quick insertion into your solution when expedited solution exchange is necessary.

The gravity-feed mechanism allows the device to support flow rates of up to 10 ml/min without breaking the bilayer membrane. The commonly available syringe reservoirs are easily replaced to reduce cross-contamination between different reservoir solutions.

A perfusion system is a critical component of a Bilayer Workstation. The ability to exchange solutions on both sides of the bilayer membrane is important if complicated experimental protocols are to be performed. Warner Instruments recommends the use of a gravity-driven system as this is the best way to remove biological and chemical materials with a minimum of noise.

Order #	Model	Product
W4 64-0431	BPS-2	Basic Bilayer Perfusion System
W4 64-0774	G200-3	Capillary glass, 2 mm OD

One of the best



8-Pole Bessel Filter

- 8-Pole low-pass Bessel filter with cutoff frequencies from 0.1 Hz to 20 kHz.
- Differential amplifier gains to x200
- Frequency selection with single control
- Input offset adjustment
- Digital frequency readout
- Rack mountable

The LPF-8 is the premier low-pass Bessel filter from Warner Instruments and provides superior control of analog signal filtering. This instrument incorporates both low-pass signal filtering and output gains from 1 to 200. Selectable dual signal inputs allow the instrument to be configured to operate in normal, inverted or differential modes.

This instrument features optically encoded circuitry which permits frequency selection with a single control. Since the set frequency control is not a physical part of the filtering circuit, adjustments to the instrument do not introduce noise artifacts into the output signal. This unique design uses no mechanical switching and ensures long term instrument reliability.

The LPF-8 is a signal conditioner combining an 8-pole low-pass Bessel filter and DC amplifier. Special features include digital frequency readout, visual input offset indicator, clipping indicator, and gain telegraph outputs.

Specifications

Input	DC differential
Input impedance	1 M Ω each channel
Input range	± 10 V
Input offset control	2 Ranges, ± 100 mV and ± 1 V, variable from 0 with 10-turn control
Offset indicator	20 LED display
Low frequency range	0.1 to 199.9 Hz
Low range resolution	0.1 Hz
High frequency range	10 to 19.99 kHz
High range resolution	10 Hz
Gains	x1, x2, x5, x10, x20, x50, x100 and x200
Output impedance	50 Ω
Power requirements	100-130 VAC or 200-250 VAC, 50/60 Hz

Order #	Model	Product
W4 64-0050	LPF-8	LPF-8 Bessel Filter, Low Pass Filter/DC Amplifier. Specify Line Operating Voltage if Other Than 100-130 VAC