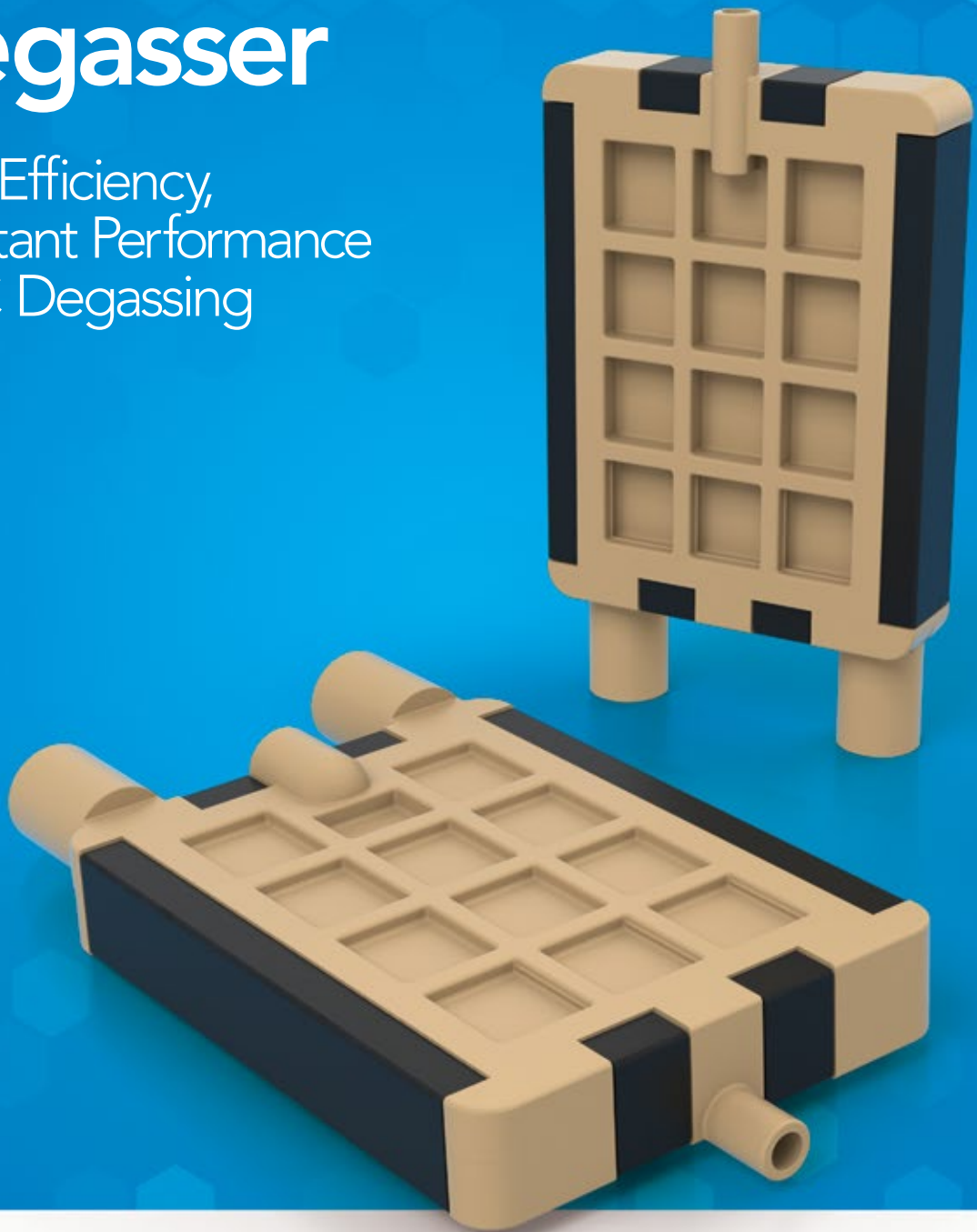


Film Degasser

High Efficiency,
Constant Performance
HPLC Degassing



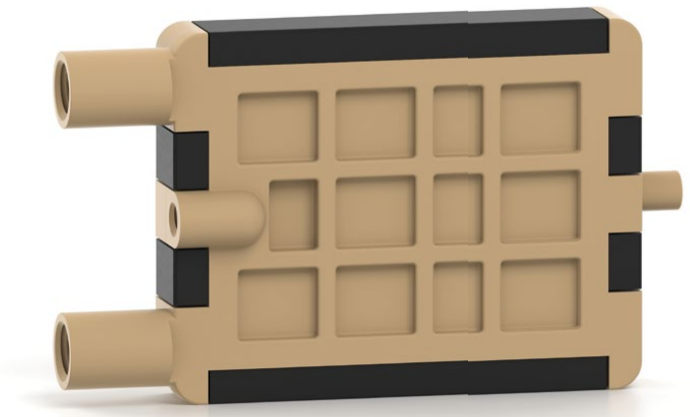
Phone: 212-204-0075
Email: info@pyvot.tech
Web: www.pyvot.tech

Intelligent Solutions for Life™
Fluidics | Optics | Consumables | Assemblies

Take Control of Your HPLC Degassing Methods with a Film Degasser from IDEX Health & Science

Our Film Degasser uses patented, cutting-edge technology that gives you powerful performance control with increased solvent compatibility. Utilizing a high-efficiency membrane and unique flow channel design, it provides the lowest fluidic resistance in the industry.

In an unprecedented leap in degassing technology, our experts have pushed the limits of what's possible when it comes to high performance liquid chromatography. Engineered using a flat film format, our Film Degasser ensures fluidic instrument precision and reliability, and delivers a transformative constant-performance vacuum design that expands the capability of your system.



More performance. More efficiency. More control.

Powerful Performance Control

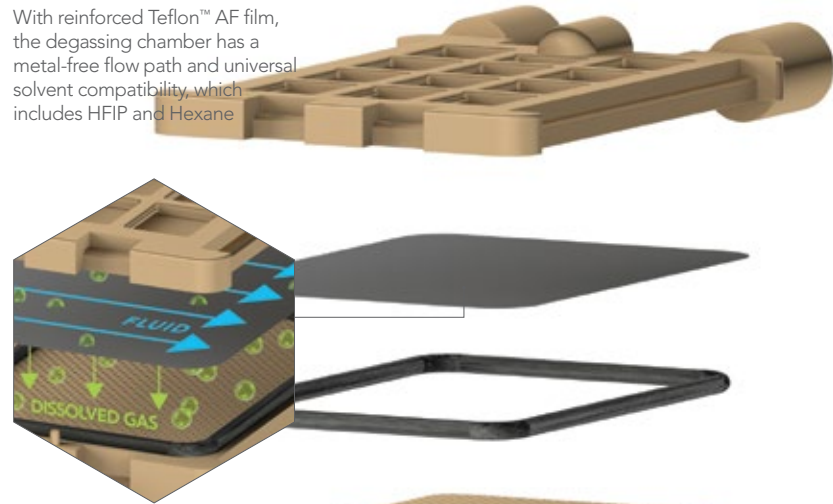
Our Film Degasser uses a patent-pending algorithm that allows you to select a fixed degassing efficiency with any HPLC separation method. This enables consistent operation to reduce pervaporation and associated concentration changes. It also gives you the ability to select a given efficiency for any HPLC system, which you can program to get the exact specification you need for every application.

Extended Dynamic Range

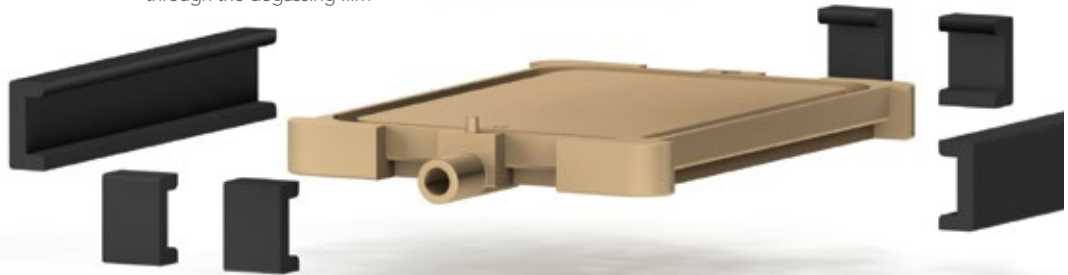
The flat film format is much thinner than a traditional lumen tube, which makes it proportionately more efficient. The patented design also has a complete non-metal flow path that enables universal application of a single type of degasser for multiple types of HPLC Systems. You can now leverage the Film Degasser to get the lowest flow restrictions and achieve the highest HPLC degassing efficiency with improved solvent compatibility.

BioVersal™

With reinforced Teflon™ AF film, the degassing chamber has a metal-free flow path and universal solvent compatibility, which includes HFIP and Hexane



Liquid flows across the film in a thin layer then dissolved gas migrates through the degassing film



High efficiency membrane in a small footprint



A means to select a given efficiency of degassing for any HPLC system



Direct link between chromatographic method flow rate and vacuum level



Consistent degassing efficiency for flow rates from 0 – 10 mL/min

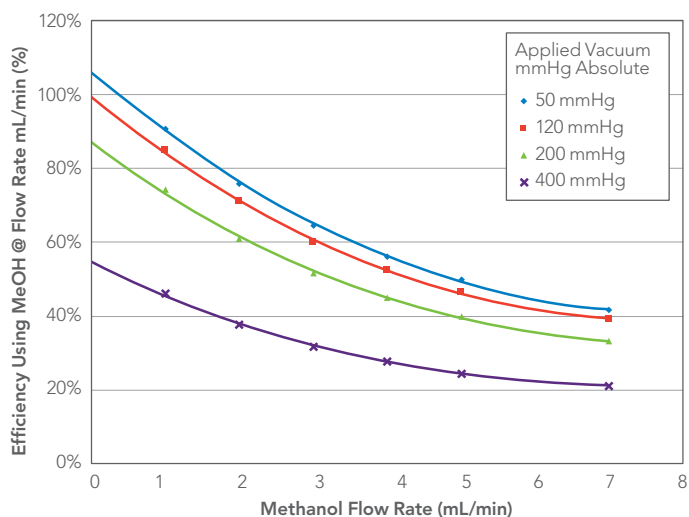


Operates at highest possible pressure, minimizing solvent loss to the laboratory atmosphere



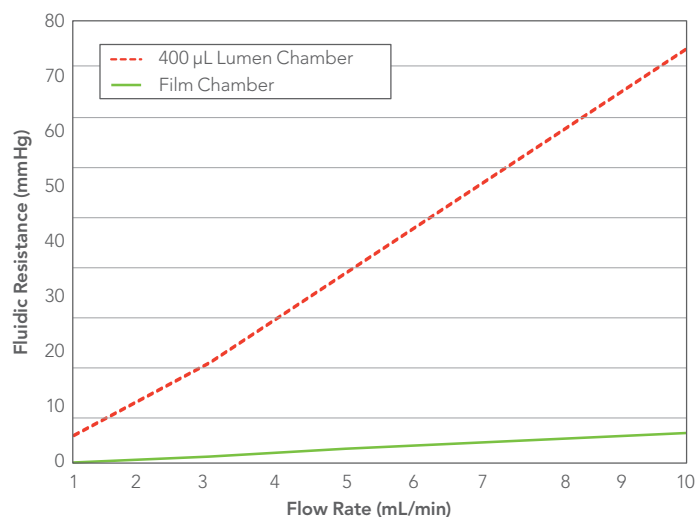
Reduced vacuum pump wear when operating at higher pressures

Flat Film Membrane Efficiency



A characterization of the new IDEX Health & Science flat film degasser at various vacuum levels and flow rates produces a data set from which any particular performance curve can be derived. This data set allows complete control over the efficiency of the degasser, such that the degasser can be optimized for any flow rate within the vacuum range of the pump.

Fluidic Resistance vs. Flow Rate



This shows the dramatic reduction in fluidic impedance, or fluidic resistance, with H₂O at 27°C. There is ~0.1 PSI of resistance from 1 to 10 mL/min. This is about 5 mmHg pressure drop over the flow rate range.

FILM DEGASSER PRODUCT SPECIFICATIONS

Degassing Channel Membrane	Teflon™ AF, Carbon
Wetted Materials	Teflon™ AF, PEEK, Carbon
Vacuum Housing Material	PEEK
Vacuum Side Materials	PEEK, PFA
Degassing Channel Volume	440 µL
Vacuum Volume	~100 µL
Maximum Pressure Rating	27 PSIG
Mounting	Threaded 6-32 UNC-2B
Liquid Connections	Threaded ¼-28 UNF-2B Flat Bottom, 3/8" Depth
Vacuum Connections	Designed for 1/8" ID Elastomeric Tubing
Operating Temperature	1°C to 60°C (IPA / H ₂ O 20/80)
Storage / Shipping Temperature	-30°C to 70°C
Maximum Flow Rate	10 mL/min

Regulatory Compliance

This product is compliant with current RoHS & REACH regulations.



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