

# Perfect PEAK<sup>®</sup>

## HPLC STATIC MIXERS

**mott**  
MISSION CRITICAL PRECISION

PerfectPeak<sup>®</sup> Static Mixers offer up to **60% BETTER BASELINE NOISE REDUCTION** and **DETECTION LIMITS** versus **COMPARABLE VOLUME MIXERS**

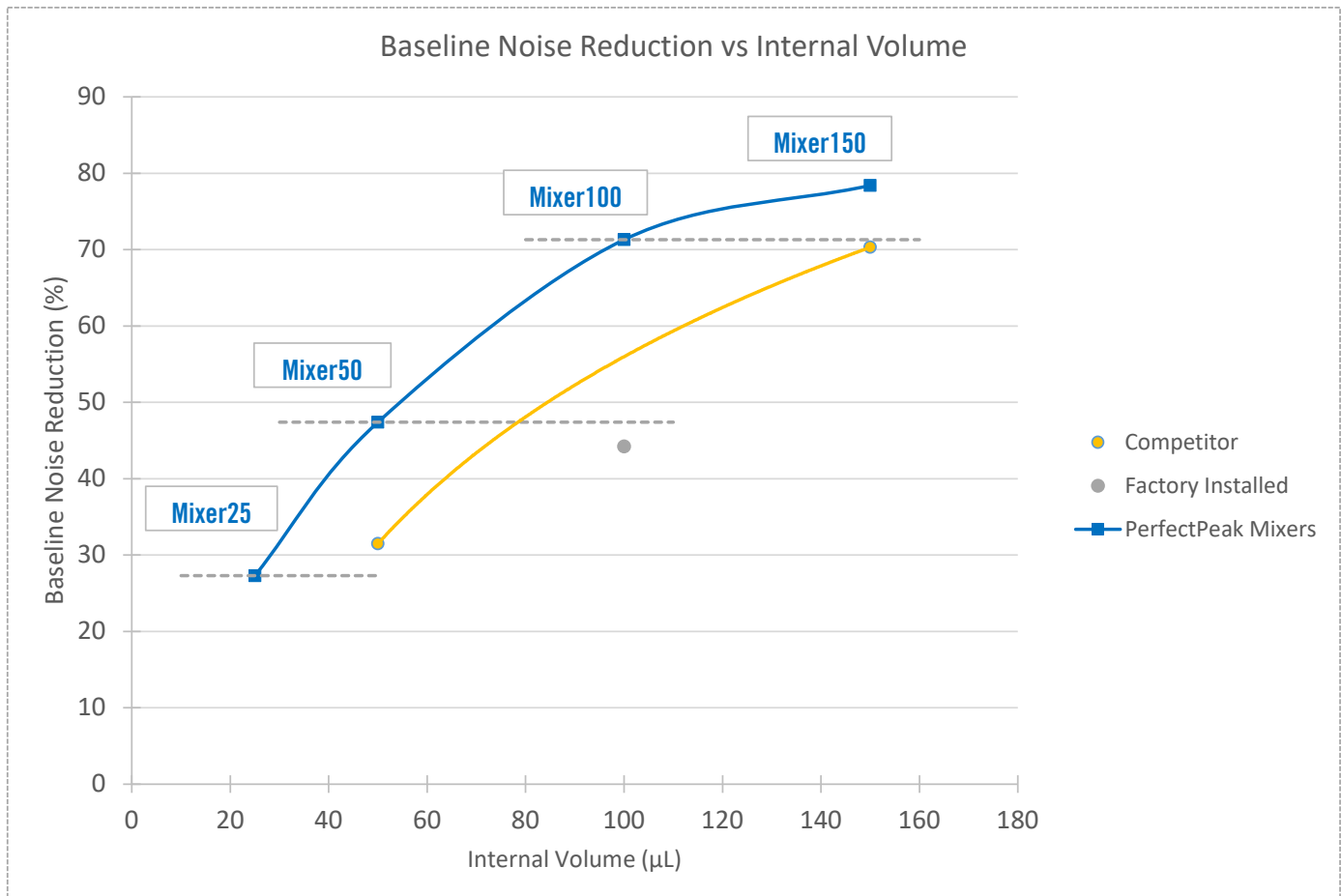
### DESCRIPTION

PerfectPeak<sup>®</sup> HPLC Static Mixers utilize cutting edge 3D printing technology to create unique mixing pathways and provide key benefits such as:

- Significant baseline noise reduction
- Compatibility with a wide range of flow rates
- Quick installation into any HPLC system



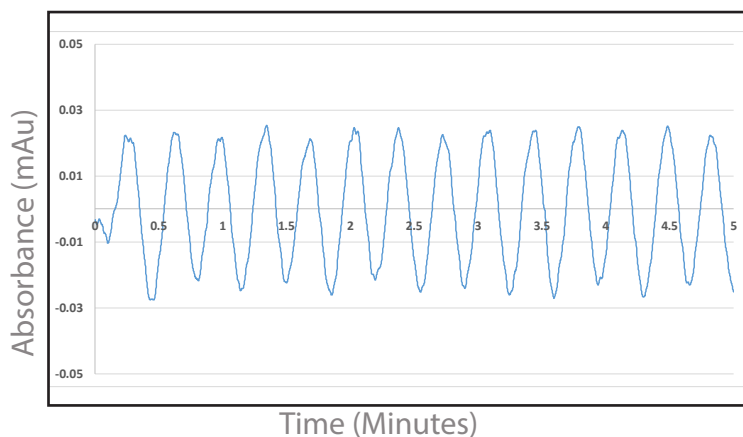
Increase Performance or Decrease Dwell Volume



# 100 µL MIXER COMPARISON - 60% PERFORMANCE GAIN WITH PERFECTPEAK

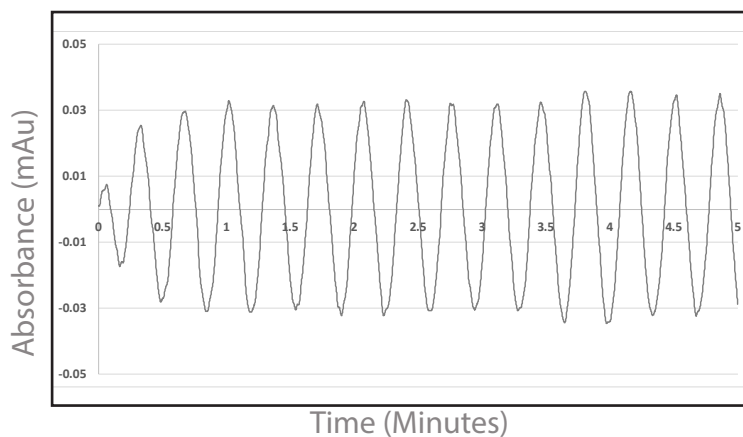
## Perfect PEAK MIXER100

Internal Volume	100 µL
Noise Reduction	70.4%



## Factory Installed 100 µL Mixer

Internal Volume	100 µL
Noise Reduction	44.2%



## PRODUCT SPECIFICATIONS

	MIXER25	MIXER50	MIXER100	MIXER150
Internal Volume	25 µL	50 µL	100 µL	150 µL
Material of Construction	Passivated 316(L) SS			
Pressure Rating	20,000 PSIG			
Connection Type	Female Compression			
Connection Size	1/16" Tube			
Custom connections are available upon request				

## ORDERING INFORMATION

Mixer Volume	Length (Inches/mm)	Part Number
<b>MIXER25</b>	1.35 / 34.29	1850011-01-3D
<b>MIXER50</b>	1.70 / 43.18	1850012-01-3D
<b>MIXER100</b>	2.40 / 60.96	1850014-01-3D
<b>MIXER150</b>	2.75 / 69.85	1850015-01-3D

### HPLC Conditions for Mixer Testing Performance

Solvent A: 20 mM Solution of Ammonium Acetate in DI H<sub>2</sub>O

Mix Ratio: 20% A / 80% B

Detector: Agilent G1314F VWD

Injector: No injection

HPLC Column: Column and Injector Bypassed - Pressure Regulator Employed

Solvent B: 80% Acetonitrile (ACN) / 20% DI H<sub>2</sub>O

Flow Rate: 0.5 mL/min

Instrument: Agilent 1260 Binary Pump

Wavelength: 220 nm

**Perfect PEAK**