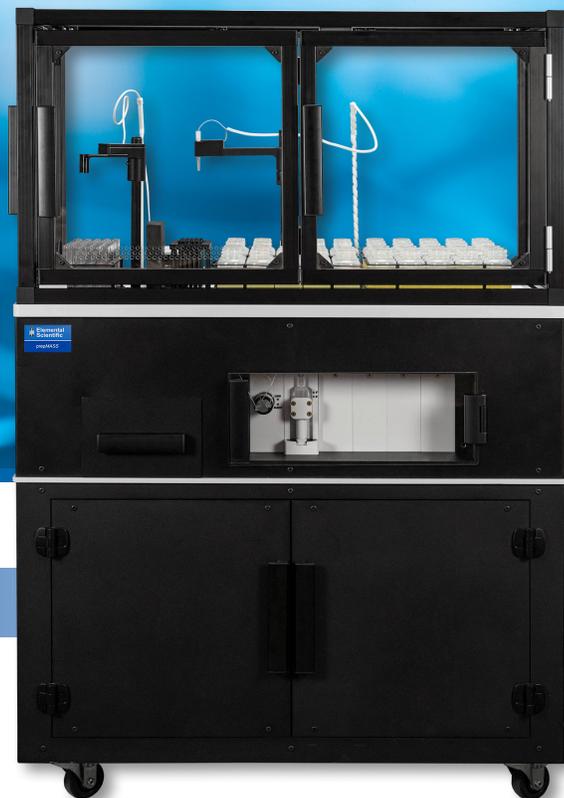


prepMASS Station

Automatic Gravimetric Dilution System

Precise by weight dilution, with solutions for sample density and viscosity variations



Features & Benefits

- **Automated Gravimetric Dilution**
 - Decrease sample preparation time
 - User-Friendly software with touchscreen interface
- **Accurate, Repeatable, and Flexible Results**
 - Accurate: <3% RE on ICP data for prepared calibration curves
 - Repeatable: <1% RSD on dilution factor over 4000 samples
 - Flexible: <1% RSD on DF for samples up to 1000 cSt
- **Optional Heated Deck**
 - Easily load oil samples with high viscosity
 - Prevent clogs and minimize maintenance when completing preparation

Dimensions and Optional Additions

	Base System	Base System with Cart	Base System with Enclosure	Base System with Cart and Enclosure	Destination	Source
System Dimensions					Large Racks	N/A
Height	30" (762 mm)	57.4" (1458 mm)	35.3" (897 mm)	62.7" (1593 mm)	Maximum Sample Capacity	4
Width	40" (1016 mm)	40" (1016 mm)	40" (1016 mm)	40" (1016 mm)	50 mL	16
Depth	22.8" (579 mm)	22.8" (579 mm)	22.8" (579 mm)	22.8" (579 mm)	15 mL	40
					8 mL	60

A wide variety of customization options, including a Bar Code Scanner and an option to heat samples, make sample loading easy.

prepMASS Station Features

Vial Gripper Arm

Transfers sample tube between scale and destination rack

Pipette Removal Station

Ejects tips after sample dispense

Destination Rack

Holds empty tubes and diluted samples

Digital Scale

Measures weight of vial, undiluted sample, and diluted sample

Pipette Rack

Holds clean tips for sampling

Pipette Arm

Sampling and diluent delivery

Liquid Level Sensor

Determines fluid level in source vial before sampling

Source Racks

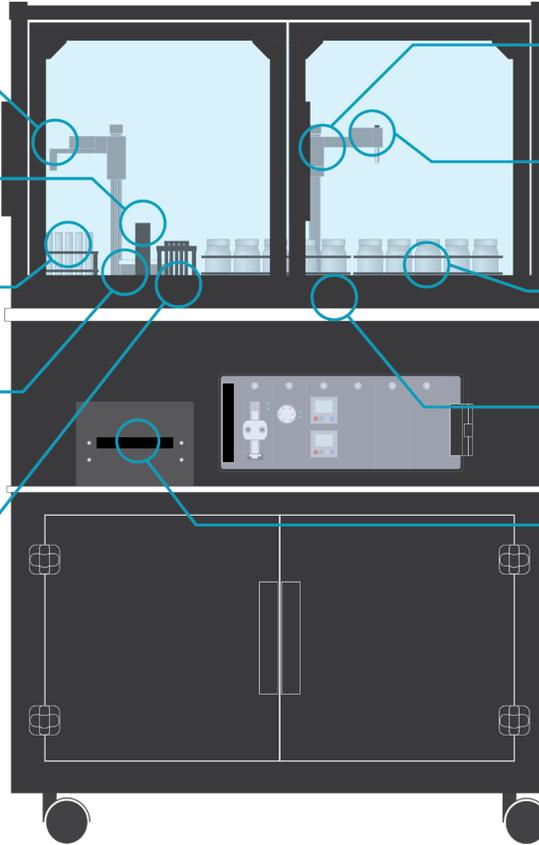
Holds undiluted samples

Autosampler Deck

Can be heated to reduce sample viscosity

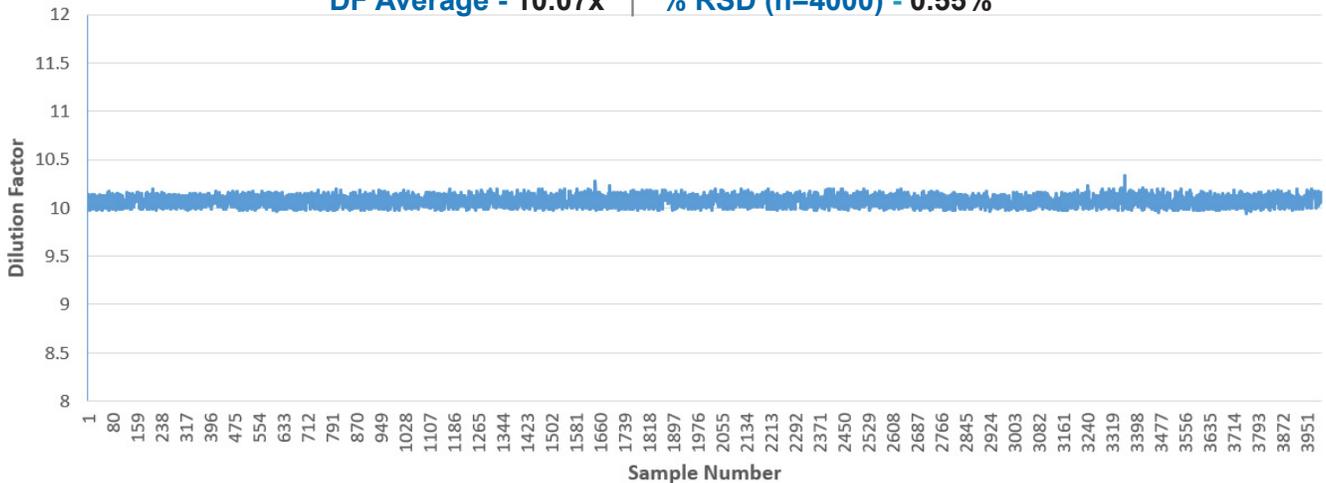
Pipette Disposal Drawer

Collects used pipette tips



prepMASS Station Accuracy

DF Average - 10.07x | % RSD (n=4000) - 0.55%



prepMASS Station dilution results demonstrating accuracy and repeatability for weight/weight dilutions. 4000 samples of 100 cSt engine oil were diluted 1:10 in V-Solv over a 3 week period, resulting in highly accurate and repeatable performance for dilutions. Total sample weight was 1g.



© Elemental Scientific | 7277 World Communications Drive | Omaha, NE 68122
Tel: 1-402-991-7800 | sales@icpms.com | www.icpms.com

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