

How to Select the Appropriate Osmometer - Biotech & Industry



It's easy to select the best osmometer for your laboratory needs

There are a variety of factors that go into choosing the right osmometer including the number of samples tested daily and the required level of automation. No matter which instrument you choose, all Advanced Instruments Osmometers utilize Freezing Point Technology which is considered the "Gold Standard"¹ osmolality determination method.

All models support

Pharmacopeia testing guidelines compliance



OsmoTECH[®] HT
Automated
Micro-Osmometer



OsmoTECH[®] PRO
Multi-Sample
Micro-Osmometer



OsmoTECH[®] XT
Single-Sample
Micro-Osmometer

**Osmometer-
Biotech & Industry:**

Workflow Features			
Best for labs with daily sample processing needs of	>20/day	>10/day	1-10/day
Sample volume	40 µL	30 µL	20 µL
Sample introduction	96 well plate	Sample cup	One-step direct
Operating range (mOsm/kg H ₂ O)	0-2,000	0-2,000	0-4,000
Test time (seconds)	140	90	≤ 150s in low range; ≤ 190s in high range
Multi-sample capacity	●	●	
Automated cleaning between samples	●	●	
Complex matrices (High concentrations, sugars, & proteins)			●
Integrated barcode scanner	● ¹	●	●
Onboard video instructions	●		
Multi-language touchscreen display	●	●	●
Compliance Support Features			
Supports 21 CFR Part 11 & EU Annex 11 compliance	●	●	●
Supports pharmacopeia testing guidelines compliance	●	●	●
Electronic signature (Review & Approve)	●	●	●
Username & password capability (With active directory)	●	●	●
Levels of users access	3 Levels	3 Levels	3 Levels
Data Management Features			
Network Connection	●	●	●
Network share	●	●	●
Automatic backup	●	●	●
Control device remotely via OPC-UA	●	●	●
USB	●	●	●
Webserver for remote data viewing	●	●	●
Data Storage Capacity	Unlimited	Unlimited	Unlimited
Data Format	.csv & pdf	.csv & pdf	.csv & pdf
Dot-matrix Printer	● ¹	● ¹	● ¹

¹ Sold separately

1 - Khandpur, R. S. (2020). page 1166. In Compendium of biomedical instrumentation (Vol. 3, pp. 1166-1166). book, John Wiley & Sons, Inc.