

Scientifically Designed for Workflow Optimization

- Batch processing load and go!
- Unlimited flexibility change sample order without stopping current test run. Perfect for shifting, "need-this-now" priorities.
- Best measured precision (repeatability and reproducibility) of any automatic or manual method
- Fastest speed of any automatic or manual method: test results in just 8-20 minutes
- Improved thermal management and more powerful cooling system; minimum sample temperature now below -88°C [-126°F]
- Less operator involvement greatly reduced chance of user-introduced error
- Import and store any user documents (.doc, .pdf, .ppt and .pps) for customized operating procedures (SOP) or training
- Connect any HP (or PCL compatible) printer via USB
- · Configurable desiccant replacement count
- Customizable reporting test history, plot data and self-diagnostics can be displayed on-screen, printed, or transferred to computer for statistical analysis, presentations, email sharing, archival storage
- FOR LUBE OILS: Sample Heater Block with Integrated Wash Station Sample vial heater block to specially pre-heat viscous samples; automatic cleaning with heptane solvent

Pour Point - Cloud Point - Freeze Point

Increase Lab Efficiency & Productivity

High performance sample handling, precise sample injection, and built-in automatic cleaning — the 70Xi Autosampler Analyzer System gives you a full range of robust, productivity-boosting features that eliminate human error and decrease lab analysis time.

ASTM Methods

All 70Xi Series Autosampler Analyzer Systems meet and comply with ASTM International methods for pour, cloud and freeze point: ASTM D5949, D5773 and D5972.

Solutions that Optimize Your Lab's Workflow

Set-and-forget convenience: unattended testing lets you initiate 1 to 48 runs in a row, then walk away and let the analyzer do the rest!

Automatic sample injection: no need to individually pipette samples or change tips. Always uses the precise





70Xi screen displays fully programmable 48-position vial selection and positioning. Samples are identified by ID number and color-coded by type. User selects sequence on-screen; no need to physically touch samples.

amount of sample as required by the ASTM method.

<u>Self-cleaning</u>: saves time and headaches caused by manual cleaning. No more risk of damage to sample cup.

One-touch preset Favorites: Frequently-used

test settings can be stored in the analyzer for quick access. Press just one button to perform a test!

Full-color, touch-sensitive, 15" high resolution screen: Easier to read and view. Multitasking capability eliminates need to flip between multiple windows. Overlay and compare multiple phase plots in different colors

<u>Easy-to-use interface</u>: New colorful graphic icon buttons for quicker navigation. Greater use of touch screen gestures.

USB and Ethernet connectivity: Quickly export analyzer data to a portable USB flash drive. Ethernet port available for connecting to LIMS or internal computer network.

Our Phase Technology analyzer is a real time-saver. The combination of automation and the easy-to-understand color touch-screen adds to our lab's overall efficiency. Thomas C. Bell, Specialist — Manufacturing and Lab Support, Americas Technical Support, Global Lubricants, Chevron



11168 Hammersmith Gate Richmond, B.C. Canada V7A 5H8 604.241.9568 www.phase-technology.com

70Xi Series Autosampler Analyzers

TEST METHODS Pour Point ASTM D5949 ASTM D5949 ASTM D597 (IP 15/ISO 3016) equivalent or better			•	•	
Cloud Point Freeze Point Freeze Point Freeze Point Freeze Point Freeze Point ASTM D5972 (IP 435) ASTM D2386 (IP 16 /ISO 3013) equivalent REPEATABILITY & REPRODUCIBILITY Freeze Point SIAS CONTAMINATION DETECTION SAMPLE TEMPERATURE RANGE TEST RESOLUTION TEST DURATION TEST	TEST METHODS	Pour Point			
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Storage up to 5000 test runs	TEMPERATURE MEASUREMENT	°C or °F (User selectable)			
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Extremes not recommended	INTERNAL MEMORY	Storage up to 5000 test runs			
DIMENSIONS (W x D x H) 21.5 x 13.25 x 17.5 inches 54.6 x 33.7 x 44.5 cm		· · · · · · · · · · · · · · · · · · ·			
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Autosampler 22 lbs / 10 kg Electrical 90 – 260 VAC, 47 – 63 Hz 350 watts External NONE		Autosampler			
Electrical 90 – 260 VAC, 47 – 63 Hz UTILITY REQUIREMENTS External 90 – 260 VAC, 47 – 63 Hz 350 watts	WEIGHT	Analyzer Unit	53 lbs	/ 24 kg	
UTILITY REQUIREMENTS External Solution 350 watts NONE		Autosampler	22 lbs	/ 10 kg	
	UTILITY REQUIREMENTS	Electrical	350 watts		
			NC	DNE	

Applications

Phase Technology 70Xi Autosampler Analyzer Systems test a wide range of petroleum and biofuels including:

- Diesel fuel
- Gas oil
- Jet fuel
- · Biofuels & biodiesels
- Finished lubricants
- PAO & synthetic lubes

transmission fluids

- Base oil
- Engine & gear oils
- Bright stock
- Automatic
- · Distillate fuel

Options

Phase Technology 70Xi Series Autosampler

Analyzer Systems give you complete flexibility —
choose the test options you need for a customized
solution. Available configurations include:

APA-70Xi Lube Oil Pour Point

APC-70Xi Lube Oil Pour & Cloud Point

PSA-70XiAS Fuels Only Pour, Cloud & Freeze Point

PCA-70XiAS Fuels Only Pour & Cloud Point

PFA-70XiAS Fuels Only Freeze & Pour Point

FCA-70XiAS Fuels Only Freeze & Cloud Point

CPA-70XiAS Fuels Only Cloud Point

FPA-70XiAS Fuels Only Freeze Point

Additional options may be available on request.

The Phase Technology 70Xi is also available as a stand-alone analyzer without autsampler.

We call our Phase Technology analyzers "The Dynamic Duo." We have both a PPA-70X and an APA-70X. Our lab tests a wide range of lube samples; some are much more viscous than the others. We use the APA to test our heaviest samples because of the auto clean capability. The APA eliminates any potential bias or error due to improper cell cleaning. We use the PPA for our more regular samples to enable even faster analysis. Either way, we get exceptionally quick pour point analyses comparable to both rotational or tilt methods, but in much less time. Paul Grives, SE/SW Quality Implementation Manager, ExxonMobil