

70Xi-SS Series Laboratory Analyzers

from Phase Technology



Time-saving Features That Boost Lab Productivity

- AUTOMATIC SAMPLE INPUT
No pipette required. New vial injection system loads sample automatically.
- SELF CLEANING — NO SOLVENT REQUIRED
No messy clean up. Automatic flush cycle rinses and disposes of remaining sample.
- FASTER THAN ANY OTHER TEST METHOD!
Fastest speed of any automatic or manual cloud, pour or freeze point method: test results in just 8-20 minutes
- SUPERIOR PRECISION
Best measured repeatability and reproducibility of any automatic or manual method
- ONE-TOUCH PRESET FAVORITES
Frequently-used test settings can be stored in the analyzer for quick access.
- OPTIMIZED FOR QUALITY CONTROL
Automatic QC runs with instantaneous control charts. Retest sample option increases confidence in test result.
- INTUITIVE, EASY-TO-USE INTERFACE
Full-color, touch-sensitive, 15" high resolution screen is easy to read and view. Multitasking capability eliminates need to flip between multiple windows.
- USB & ETHERNET CONNECTIVITY
Quickly export analyzer data to a portable USB flash drive. Ethernet port available for connecting to LIMS or computer network. Connect any HP (or PCL compatible) printer.

Jet Fuel Freeze Point - Diesel Cloud Point - Diesel Pour Point

Our Fastest, Easiest Analyzer Yet!

Phase Technology's 70Xi-SS significantly increases lab productivity and improves profitability by providing quick, precise test results.

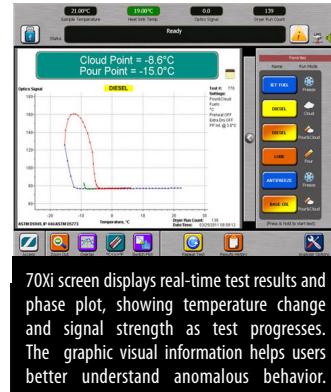
And with its new automatic, "single shot" sample injection port, the 70Xi-SS is the fastest, easiest-to-use Phase Technology analyzer yet!

Automatic Sample Injection System

The 70Xi-SS features a side loaded automatic sample injection port.

There's now no longer a need to manually pipette. The analyzer always draws the precise amount of sample as required by the ASTM method.

The 70Xi-SS is completely self-cleaning, without the need of solvents. This saves the time and hassle of cleaning by hand. It also eliminates the risk of damage to the sample cup.



70Xi screen displays real-time test results and phase plot, showing temperature change and signal strength as test progresses. The graphic visual information helps users better understand anomalous behavior.

Robust, Innovative 70Xi Design

The 70Xi-SS analyzer is built on the successful 70Xi series platform, so all the same time-saving, productivity-boosting features are included – programmable favorites, QC control charts, field-serviceability, and smart analyzer "intellinostics."

Universally Trusted ASTM Methods

Phase Technology users can be confident that their test results accurately meet and comply with ASTM International standards for pour, cloud and freeze point: ASTM D5949, D5773 and D5972.

Phase Technology is proud to have the longest, continuously running ASTM automatic cold flow methods in the world.

Precision, reliability and trust – it's the Phase Technology commitment!

This instrument has been a blessing, cutting our reporting time in half. We were using the manual method, so it's great that we no longer have to deal with dry ice and manual mixing. -Humberto Hill, Lab Manager, Camin Cargo Control Lab

Technical Specifications

70Xi-SS Series Lab Analyzers

TEST METHODS	Pour Point	ASTM D5949 ASTM D97 (IP 15 / ISO 3016) equivalent or better			
	Cloud Point	ASTM D5773 (IP 446) ASTM D2500 (IP 219 / ISO 3015) equivalent			
	Freeze Point	ASTM D5972 (IP 435) ASTM D2386 (IP 16 / ISO 3013) equivalent			
STATED PRECISION: REPEATABILITY & REPRODUCIBILITY		Repeatability	Reproducibility		
	Pour Point	1.6 °C	3.2 °C		
	Cloud Point	1.3 °C	2.5 °C		
	Freeze Point	0.5 °C	0.8 °C		
BIAS	0 (relative to ASTM manual methods)				
CONTAMINATION DETECTION	99% (highest measured value in ASTM study)				
SAMPLE TEMPERATURE RANGE	-88 °C to 70 °C				
SYSTEM CLEANING	Automatic flush cycle; no solvent required				
TEST DURATION	Pour Point	8 to 30 minutes			
	Cloud Point	5 to 10 minutes			
	Freeze Point	8 to 10 minutes			
REQUIRED OPERATOR TIME	0.5 minutes				
SAMPLE SIZE	0.15 mL required for test 25 mL required for system cleaning				
DETECTION METHOD	Patented Diffusive Light Scattering (DLS) technology				
COOLING SYSTEM	Integrated Peltier device cooling system				
DISPLAY	Full-color, touch-sensitive, 15" high resolution LCD touch screen				
OUTPUTS	(3) USB A ports for optional peripherals: flash drive, label printer, barcode scanner, keyboard, mouse; (1) USB B port (3) RS-232 serial ports for optional peripherals & networking: external computer, Phase Technology LTB diagnostic software; (1) dedicated Service port; (1) 10/100Base-T Ethernet (RJ45) port for networking: LIMS, local area network (LAN)				
TEMPERATURE MEASUREMENT	°C or °F (User selectable)				
ALERTS	Buzzer for alarms warnings and prompts (User selectable)				
INTERNAL MEMORY	Storage up to 5000 test runs				
AMBIENT OPERATING ROOM TEMPERATURE	10 to 30 °C (50 to 86 °F) Extremes not recommended				
DIMENSIONS (W x D x H)	Unit	Length x Width x Height 21.5 x 13.25 x 17.5 inches 54.6 x 33.7 x 44.5 cm			
	Boxed	29 x 23 x 19 inches 74 x 58 x 48 cm			
WEIGHT	Unit	53 lbs / 24 kg			
	Boxed	62 lbs / 28 kg			

Applications

Phase Technology 70Xi-SS analyzers are designed to test diesel and jet fuels.

Options

Phase Technology 70Xi-SS series analyzers give you flexibility – choose the test options you need. Available configurations include:

CPA-70Xi-SS Cloud Point

FPA-70Xi-SS Freeze Point

FCA-70Xi-SS Freeze & Cloud Point

PCA-70Xi-SS Pour & Cloud Point for fuels

PSA-70Xi-SS Pour, Cloud & Freeze Point for fuels

It's important for us to maintain consistent quality at every point of the refining process. That's why we use Phase Technology analyzers throughout our company in various locations. Our business depends upon the accuracy of the results. For reliability, Phase Technology is our instrument of choice. -Louis A. Delgado, Lab Manager, Valero Energy Corporation