

eralytics<sup>o</sup> trusted solutions.  
re-imagined.

THE NEXT ERA

eravisc X

VISCOSITY TESTING



# eravisc X Xtra Easy Xtra Rugged Xtra Accurate

**ERAVISC X** is the world's smallest and most rugged kinematic viscometer with lab-grade precision meeting ASTM D445 and ASTM D7042. Its revolutionary viscosity cell is combined with **eralytics** unique x-oscillating metal U-tube density meter allowing a simultaneous high-precision density measurement in full compliance with ASTM D4052 and ISO 12185.

  
THE NEXT ERA

## Xtra ACCURATE

**ERAVISC X**'s revolutionary capillary measuring cell is a real game changer for high-precision kinematic viscosity testing at any temperature between 15 °C and 100 °C. Latest Peltier Technology allows for the automated, high-speed viscosity index measurement. **eralytics** unique FillingProof™ solution detects even smallest bubbles, ensuring maximum accuracy.

## Xtra COMPACT

**ERAVISC X** is the analyzer with the smallest footprint on the market, still offering maximum ease of use and operator convenience. The compact dimensions and lightweight instrument design offer true portability on-site and require minimum bench space in the lab.

## Xtra FAST & EASY

The fully automated measurement of the kinematic viscosity at 40 °C or at 100 °C takes only 1 minute. Results are displayed on the large industry-proven color touchscreen and can be printed, exported via USB or directly transferred to a PC or LIMS via Ethernet connection.

With its unique sample introduction from the top **ERAVISC X** is equally easy to operate for right-handed and left-handed persons.

## Xtra RUGGED

**ERAVISC X** is built in a corrosion-resistant aluminum housing. Its ruggedness and reliability make it the ideal solution for daily viscosity measurements in the laboratory as well as directly in the field to immediately detect contamination, mix-up, and oil degradation.

**ERAVISC X** is the perfect solution for highly accurate testing even under extreme conditions.

**ERAVISC X** allows for the independent measurements of viscosity and density enabling the simultaneous determination of both values at different temperatures.

**eralytics** unique capillary viscosity measurement method determines the flow time of the sample as a function of a rapidly measured pressure. This patented principle combines the advantages of traditional measurement methods with the speed and ease of use of **eralytics** instruments.

2 in 1: Viscosity & Density

# Technical Specifications of eravisc X

Available Test Methods	Viscosity: Correlation to ASTM D445, D7042, ISO 3104, ISO 23581 Density: ASTM D4052, D5002, ISO 12185
Special Operation Modes	Viscosity Index (40 °C & 100 °C) Simultaneous Viscosity & Density testing at individual temperatures
Measuring Range	Viscosity: 1 - 1000 mm <sup>2</sup> /s   Density: 0 - 3 g/cm <sup>3</sup>
Temperature Range	Viscosity: 15 °C to 100 °C (59 °F to 212 °F)   Density: 0 °C to 100 °C (32 °F to 212 °F)
Repeatability	Viscosity equivalent to ASTM D445 and D7042   Density: 0.00001 g/cm <sup>3</sup>
Resolution	Viscosity: 0.01 mm <sup>2</sup> /s   Density: 0.00001 g/cm <sup>3</sup>
Temperature Accuracy	0.02 °C (0.04 °F)
Measurement Time	Viscosity: 60 sec   Density: 15 sec (after temperature equilibration)
Sample Volume	3 mL
Bubble Detection*	FillingProof™ - automated bubble detection and bubble quantification
Special Features	Integrated fully-automated drying pump, built-in ambient pressure sensor
Result Database	Over 100 000 detailed test reports stored
Remote Service	Remote service capability via Ethernet
Interfaces	Built-in PC with Ethernet, 4 x front and rear USB, and RS232 interfaces; Wi-Fi via USB dongle Direct LIMS connectivity via LAN, output to printer or PC, and export as CSV or PDF Optional input by keyboard, mouse, and barcode reader
Display	Industry proven 8.4" multilingual color touchscreen
Power Requirements	85 - 264 V AC 47 - 463 Hz, max 150 W
Operating Conditions	5 °C - 45 °C up to 90 % rel. humidity (non-condensing)
Dimensions & Weight	W x D x H = 15,5 x 26 x 28 cm (6.1 x 10.2 x 11 in); 8 kg (17.6 lb)

\* patent pending

Due to continuing product development, specifications are subject to change.

All eralytics products are manufactured under ISO 9001 regulations and are CE, ROHS and UL/CSA compliant. [www.eralytics.com](http://www.eralytics.com)



eralytics instruments are available worldwide.  
An international network of over 50 authorized and well-trained distributors  
is ready to answer your inquiries and to offer local support and service.  
[www.eralytics.com/distribution](http://www.eralytics.com/distribution)

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