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LEADING VISCOSITY TECHNOLOGY

V Series

FUNGILAB IS EXPANDING THE SCOPE OF SCIENTIFIC INSTRUMENTATION

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LEADING VISCOSITY TECHNOLOGY

MATCHING INNOVATION AND PRECISION, FUNGILAB HAS EXCEEDED ALL EXPECTATIONS BY DELIVERING ONLY THE FINEST IN NEW TECHNOLOGY

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LEADING VISCOSITY TECHNOLOGY

WITH AN INTUITION FOR MODERNITY AND PROGRESSION, FUNGILAB AIMS TO BE AT THE FOREFRONT OF PRODUCT DESIGN, CREATIVITY, AND INVENTION.

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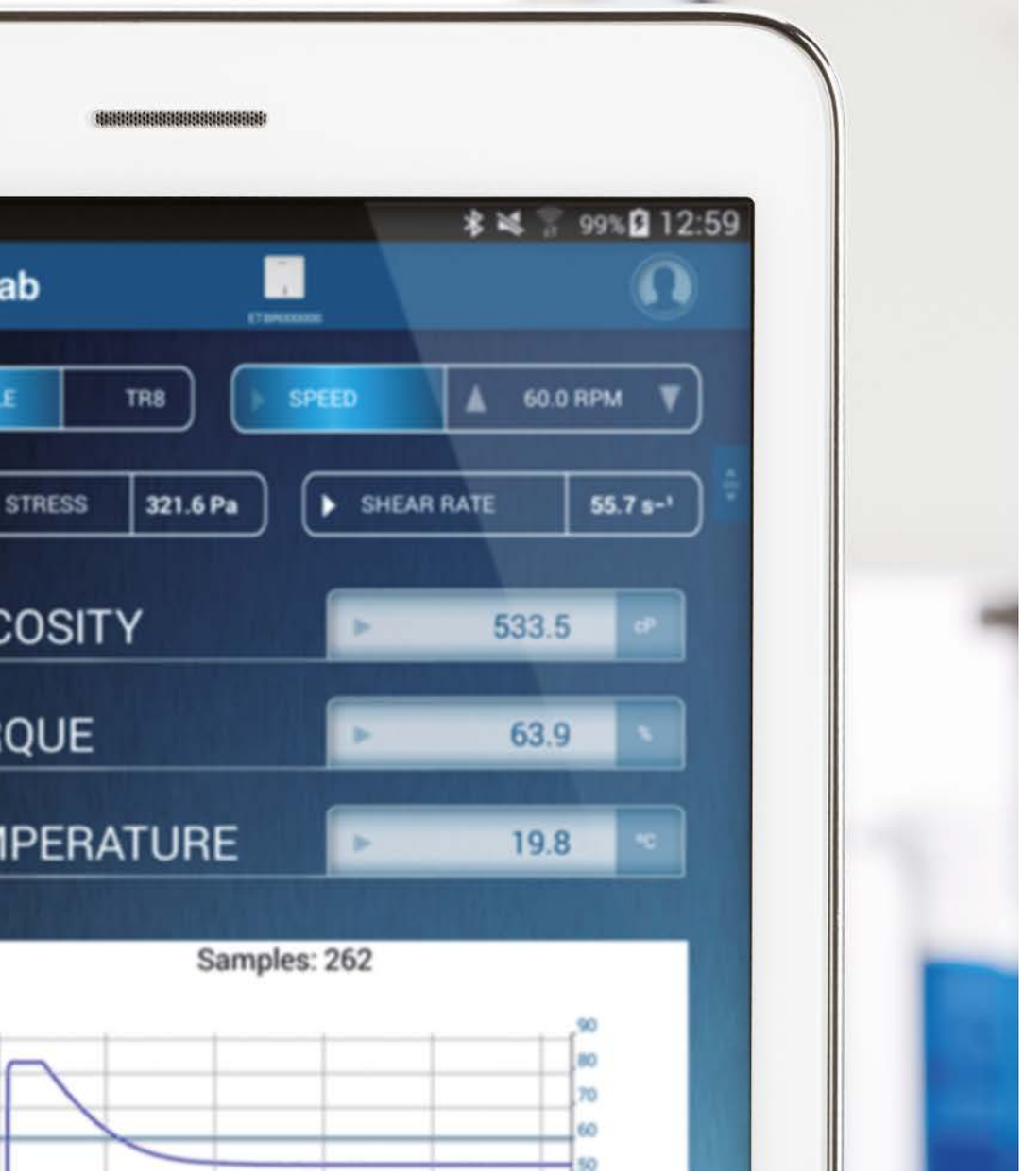
V-Compact



V-Compact

The V-COMPACT viscometer is controlled using an intuitive mobile application on an 8-inch tablet.

MAIN FEATURES

The V-Compact features different viscometer heads (L, R or H) which can easily be exchanged to cover all viscosity ranges.

Data Displayed:

> Selected Speed	R.P.M., S^{-1}
> Viscosity Reading	cP, P, mPa.s, Pa.s, cSt, St, mm^2/s
> Full Scale Percentage	%
> Sample Temperature	ºC o ºF
> Shear Rate (SR)*	s^{-1}
> Shear Stress (SS)*	N/m^2, Pa, $Dyne/m^2$
> Density (Introduced by the user)	g/cm^3, Kg/m^3

** Only with coaxial spindles / L2C + L3C*

Viscosity Reading:
Dynamic Viscosity (cP, mPa•s)
Kinematic Viscosity (cSt) (Users must enter density value.)

Programs:
> Create and edit multiple programs
> Store programs for later use
> Choose between Time To Torque (TTT), Time To Stop (TTS), Step and Ramp

Data Storage:
> Store the results of all performed experiments in a comprehensive database
> Users can analyze and review saved data for future testing purposes
> Users can access the program configuration for each experiment

Customization:
> Create a list of customized speeds (0.01 to 250 rpm)
> Activate/deactivate Quality Control Limits (QCL) and Out of Range alarms
> Users can change the axis values on the graphic display

Auto-Test: Automatic viscometer calibration with sound and visual malfunction alarm.

Auto-Range: Displays the maximum viscosity range for the selected spindle/rpm combination

Tablet: Access all parameters on an 8-inch tablet. Free mobile application available through the Google Play Store.

Languages: Multiple language selections are available.

QCL **QCL:** Select the quality control limits for sample analysis.

LA.M **I.A.M.:** Measurement update rate regulated through the selection of the different times in each experiment.

Graphic Mode: Displays experiment data with real time charts.

Export: Export experiment results in PDF and CSV format.

Calibration: User-enabled viscosity and temperature calibration. (This calibration can always be reset to the original factory calibration.)

OFFSET **Offset:** Adjust the temperature through an offset.

Heldal: Helicoidal movement incorporated into the V-Compact viscometer for the viscosity measurement of non-flowing substances.

Accessories: The V-Compact is compatible with a small sample adapter (APM) and low viscosity adapter (LCP).

PPR **PPR:** The V-Compact includes a Push, Plug and Release (PPR) System for quick and efficient spindle changes

TECHNICAL SPECIFICATIONS

- **Repeatability:** 0,2%
- **Accuracy:** +/- 1% full scale
- **Temperature Range:** -40ºC to +300ºC
- **Temperature Resolution:** 0,1ºC
- **Temperature accuracy:** +/-0,3ºC
- **Temperature Probe:** PT100, Class A
- Spindles manufactured with AISI 316 stainless steel
- Power Supply: 90-240VAC, 50/60 Hz.

VISCOSITY RANGES:

Code	Model	Measurement Range (cP)	Speed (rpm)
VC101003	V-COMPACT L	1* - 6.000.000	0,01 - 250
VC101002	V-COMPACT R	25** - 40.000.000	0,01 - 250
VC101001	V-COMPACT H	200*** - 320.000.000	0,01 - 250

- **Viscosity measurement ranges referenced from 0.1 to 200RPM**

* Viscosity range referenced from 0.1 to 200RPM with LCP accessory. Without LCP the lowest viscosity measured is 15cP.

** Using the R-1 spindle at 60 rpm (faster speeds may create turbulences in the sample)

*** Using the R-1 spindle at 60 rpm

Measurement resolution according to the viscosity range

> Viscosities up to	100 cP	0,01 cP
> Viscosities up to	1.000 cP	0,1 cP
> Viscosities up to	5.000 cP	1,0 cP
> Viscosities up to	10.000 cP	5,0 cP
> Viscosities up to	25.000 cP	10,0 cP
> Viscosities up to	50.000 cP	25,0 cP
> Viscosities up to	100.000 cP	100,0 cP
> Viscosities above	1000.000 cP	1000,0 cP

Standard delivery: Instruments are delivered with an 8-inch tablet pre-installed with the Fungilap APP. Also includes: standard spindles (4 spindles for L models and 6 spindles for R or H models), viscometer head (L or R or H), motorized base, spindle protector, spindle rack, temperature probe, power supply cable, calibration certificate, operating manual and carrying case.

* **Viscometer head:** Additional viscometer heads can be ordered with corresponding spindles, protector and carrying case; or with the carrying case alone.

VCH101003	**V-COMPACT L Viscometer Head+Accessories**	VCH1010C3	**V-COMPACT L Viscometer head only**
VCH101002	**V-COMPACT R Viscometer Head+Accessories**	VCH1010C2	**V-COMPACT R Viscometer head only**
VCH101001	**V-COMPACT H Viscometer Head+Accessories**	VCH1010C1	**V-COMPACT H Viscometer head only**

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V-Pad 1

V-Pad

The V-PAD viscometer is controlled using an intuitive mobile application on an 8-inch tablet.

MAIN FEATURES

Data Displayed:

> Selected Speed	R.P.M., S^{-1}
> Viscosity Reading	cP, P, mPa.s, Pa.s, cSt, St, mm^2/s
> Full Scale Percentage	%
> Sample Temperature	ºC o ºF
> Shear Rate (SR)*	s^{-1}
> Shear Stress (SS)*	N/m^2, Pa, $Dyne/m^2$
> Density (Introduced by the user)	g/cm^3, Kg/m^3

** Only with coaxial spindles / L2C + L3C*

Viscosity Reading:
Dynamic Viscosity (cP, mPa•s)
Kinematic Viscosity (cSt) (Users must enter density value.)

Programs:
> Create and edit multiple programs
> Store programs for later use
> Choose between Time To Torque (TTT), Time To Stop (TTS), Step and Ramp

Data Storage:
> Store the results of all performed experiments in a comprehensive database
> Users can analyze and review saved data for future testing purposes
> Users can access the program configuration for each experiment

Customization:
> Create a list of customized speeds (0.01 to 250 rpm)
> Activate/deactivate Quality Control Limits (QCL) and Out of Range alarms
> Users can change the axis values on the graphic display

Auto-Test: Automatic viscometer calibration with sound and visual malfunction alarm.

Auto-Range: Displays the maximum viscosity range for the selected spindle/rpm combination

Tablet: Access all parameters on an 8-inch tablet. Free mobile application available through the Google Play Store.

Languages: Multiple language selections are available.

QCL: Select the quality control limits for sample analysis.

I.A.M.: Measurement update rate regulated through the selection of the different times in each experiment.

Graphic Mode: Displays experiment data with real time charts.

Export: Export experiment results in PDF and CSV format.

Calibration: User-enabled viscosity and temperature calibration. (This calibration can always be reset to the original factory calibration.)

Offset: Adjust the temperature through an offset.

Accessories: The V-Pad is compatible with all the available accesories (APM,APM/B,LCP,LCP/B, HELDAL)

PPR: The PPR (Push, Plug and Release) fast spindle switch system is available as an option.

TECHNICAL SPECIFICATIONS

- **Repeatability:** 0,2%
- **Accuracy:** +/- 1% full scale
- **Temperature Range:** -40ºC to +300ºC
- **Temperature Resolution:** 0.1ºC
- **Temperature accuracy:** +/-0,3ºC
- **Temperature Probe:** PT100, Class A
- Spindles manufactured with AISI 316 stainless steel
- Power Supply: 90-240VAC, 50/60 Hz.

VISCOSITY RANGES:

Code	Model	With PPR	Measurement Range (cP)	Speed (r.p.m.)
VP100003	VPAD L	VP101003	1* - 6.000.000	0,01 - 250
VP100002	VPAD R	VP101002	25** - 40.000.000	0,01 - 250
VP100001	VPAD H	VP101001	200*** - 320.000.000	0,01 - 250

- **Viscosity measurement ranges referenced from 0.1 to 200RPM**

* Viscosity range referenced from 0.1 to 200RPM with LCP accessory. Without LCP the lowest viscosity measured is 15cP.

** Using the R-1 spindle at 60 rpm (faster speeds may create turbulences in the sample)

*** Using the R-1 spindle at 60 rpm

Measurement resolution according to the viscosity range

> Viscosities up to	100 cP	0.01 cP
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> Viscosities up to	10.000 cP	5.0 cP
> Viscosities up to	25.000 cP	10.0 cP
> Viscosities up to	50.000 cP	25.0 cP
> Viscosities up to	100.000 cP	100.0 cP
> Viscosities above	1000.000 cP	1000.0 cP

Standard delivery:

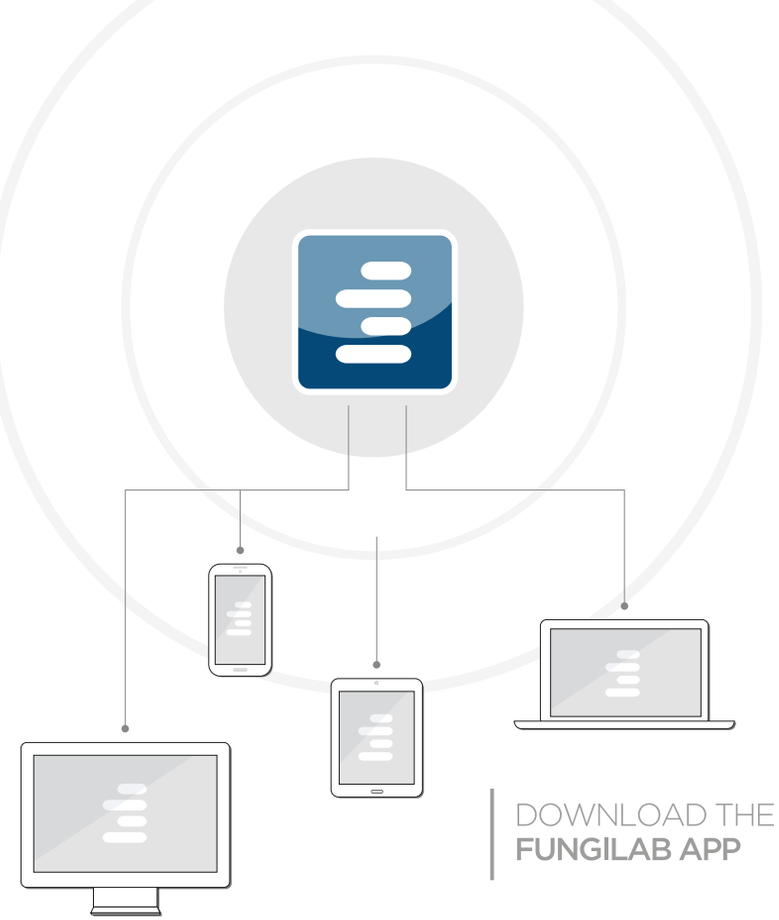
> Instruments are delivered complete with the standard spindles (4 spindles for L models and 6 spindles for R or H models), viscometer head (L or R or H), base, spindle protector, spindle rack, temperature probe, power supply, calibration certificate and carrying case.

V Series

Welcome to the future of research
—we hope you're ready.

www.viscosimetri.it

info@viscosimetri.it



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