



 **Cole-Parmer®**

THERMO SCIENTIFIC HAAKE 6 PLUS AND 7 PLUS ROTATIONAL VISCOMETERS



WORLD'S ONLY
VISCOMETER
COMPLIANT WITH
21 CFR SOFTWARE

Thermo Scientific Haake 6 plus and 7 plus Rotational Viscometers

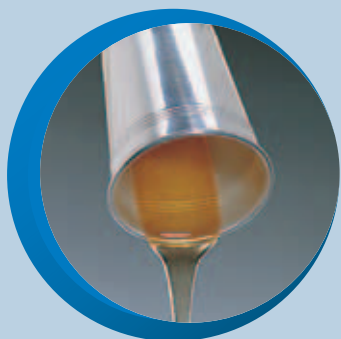
The Haake 6 plus and 7 plus rotational viscometers from Cole-Parmer are ideal for quickly determining viscosity according to ISO 2555 and ASTM standards. These viscometers are equipped for quality control, industrial, and laboratory viscosity tests along with comparative measurements according to recognized standards.

The Haake 7 plus offers great additional features! It comes packaged with Rheowin 3 software—a measuring and evaluation software ideal for your standard quality assurance and production tasks, as well as your constantly changing research and development needs. Choose the package with the 21 CFR part 11 tool in order to meet stringent requirements of regulated industries. The Haake 7 plus also features a bi-directional RS-232 interface to transfer data to your PC or printer, and a Pt 100 temperature sensor to monitor and display the sample temperature.

Available off-the-shelf from Cole-Parmer India at competitive prices, these products are unique in the marketplace.

APPLICATIONS

- For comparative measurements on highly viscous samples such as creams, pastes, and gels



FEATURES

- Integrated automatic diagnostic functionality
- Visual and acoustic signals at critical measuring conditions
- Digital speed control with built-in accuracy via step motor
- Digital display of viscosity, % torque, speed, spindle, and upper viscosity limit
- Ready-to-go package—simply unpack, switch on, and start measuring viscosity

Additional Features for Haake 7 plus:

- Packaged with the extremely flexible Rheowin 3 measuring and evaluation software
- Package available with the 21 CFR part 11 tool which helps users in both research and quality control comply with regulated industries
- Bi-directional RS-232 interface
- Pt 100 temperature sensor to monitor and display the sample temperature

Haake 7 plus package available with 21 CFR compliant software



Thermo Scientific Haake 6 plus and 7 plus Rotational Viscometers



MEASURING PRINCIPLE

These rotational viscometers measure the resistance of the substance against a preset speed. The resulting torque or resistance measures the viscosity of the fluid. The higher the torque, higher the viscosity.

AVAILABLE IN “L” OR “R” VERSION

The “L” version is mainly for low-viscous substances such as diluted solutions, oils, dispersions, and emulsions. Measuring range is 3 to 6,000,000 mpas.

The “R” version is for medium-viscous substances and is suitable for 80% of all viscosity measurements. Handles viscosity range of fluids from machine oil to whipped cream. Measuring range is 20 to 40,000,000 mpas.

RHEOWIN 3 SOFTWARE

Extremely flexible measuring and evaluation software is ideally suited for your standard quality assurance and production tasks, as well as for constantly changing research and development requirements. This easy-to-use software is packaged with the Haake 7 plus viscometer.

21 CFR PART 11 TOOL

Software tool helps users in both research and quality control to comply with the stringent requirements of the regulated industry. It provides a user management system, file integrity, audit trail, and electronic signatures to ensure that the integrity of electronic records is always maintained. Available packaged with the Haake 7 plus viscometer.

WIDE SELECTION OF ACCESSORIES

The Haake 6 plus and 7 plus viscometers are available with different accessories like Helipath for comparative measurements on highly viscous samples such as creams, pastes, gels. Adapters are available for low-viscosity and small-volume samples.

In the U.S.

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Call toll-free 800-323-4340
Phone: 847-549-7600
Fax: 847-247-2929
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In Canada

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In the United Kingdom

Free phone: 0500-345-300
Phone: 020-8574-7556
Fax: 020-8574-7543
www.coleparmer.co.uk

In India

Phone: 91-22-6716-2222
Fax: 91-22-6716-2211
www.coleparmer.in

International customers

Call 847-549-7600 to reach our International Sales Department or contact your local dealer.



FREE TECHNICAL APPLICATIONS ASSISTANCE!

PERFORMANCE SPECIFICATIONS

- Delivered in a sturdy carrying case as a complete ready-to-use package with three measuring systems each
- Haake 7 plus viscometer is packaged with the Rheowin 3 measuring and evaluation software. Upgrade to the package with the 21 CFR part 11 software tool in order to meet strict requirements of regulated industries.



Accuracy:

±1% full-scale in use

Reproducibility:

±0.2% full-scale in use

Operating conditions:

10 to 40°C (50 to 104°F), 80% RH

Resolution:

0.1% full-scale in use

Rotational speeds:

0.1, 0.2, 0.3, 0.5, 0.6, 1,
1.5, 4, 5, 6, 10, 12, 20,
30, 50, 60, 100, 200 cpm

Power:

110 to 240 VAC, 50/60 Hz



Catalog number	Description	Range*
ML-98965-00	Haake 6L plus rotational viscometer	3 to 6,000,000 mPas (cp) in 84 ranges
ML-98965-05	Haake 6R plus rotational viscometer	20 to 40,000,000 mPas (cp) in 126 ranges
ML-98965-20	Haake 7L plus rotational viscometer with RheoWin 3 software	3 to 6,000,000 mPas (cp) in 84 ranges
ML-98965-25	Haake 7R plus rotational viscometer with RheoWin 3 software	20 to 40,000,000 mPas (cp) in 126 ranges
ML-98965-30	Haake 7L plus rotational viscometer with RheoWin 3 software and 21 CFR part 11 tool	3 to 6,000,000 mPas (cp) in 84 ranges
ML-98965-35	Haake 7R plus rotational viscometer with RheoWin 3 software and 21 CFR part 11 tool	20 to 40,000,000 mPas (cp) in 126 ranges

*Ranges apply to Newtonian materials.

What's included:

Three rotors, stand, spindles with storage rack, and carrying case.

Accessories

ML-98972-00 Helipath stand, 115 VAC, 60 Hz. For up and down movement of measuring head, allows tracing of a helicoidal path through sample.

ML-98972-02 Helipath stand, 230 VAC, 50 Hz. For up and down movement of measuring head, allows tracing of a helicoidal path through sample.

ML-98972-10 Low-viscosity adapter, 1.0 to 6.4 mPas.

ML-98972-04 Small-sample adapter, 8 to 13 mL depending on required spindle set (order separately below).

ML-98972-06 Spindle set required for small-sample adapter. Use with Haake "L" plus viscometers only.

ML-98972-08 Spindle set required for small-sample adapter. Use with Haake "R" plus viscometers only.



Helipath stand
98972-00



Low-viscosity
adapter 98972-10