

The Thermo Scientific HAAKE Viscotester iQ (VTiQ) is a modular benchtop rheometer for viscosity and viscoelastic characterisation, with automatic rotor recognition, interchangeable temperature modules, and a touchscreen interface designed for routine QC and research use.

SPECIFICATIONS

Models	VTiQ (ball bearing), VTiQ Air (air bearing)
Torque range	0.2–100 mNm (VTiQ) 0.01–100 mNm (VTiQ Air)
Rotational speed	0.01–1500 rpm
Frequency range	0.1–20 Hz (VTiQ) 0.1–50 Hz (VTiQ Air)
Viscosity range	0.001–600,000 Pa·s
Temperature modules	Peltier (–5 to 160°C cylinders / 0 to 140°C plates) Liquid (–20 to 180°C cylinders / –10 to 160°C plates) Electric (to 300°C)
Geometries	Coaxial cylinders, double-gap, parallel plates, cones, vane rotors
Dimensions (L×W×H)	270 × 500 × 500 mm
Weight	18 kg
Connectivity	TCP/IP, 2× USB
Power	100–240V, 50/60 Hz (auto-switching)

APPLICATIONS

- ▶ Food and beverage: viscosity of sauces, dairy products, dough, beverages
- ▶ Cosmetics and personal care: creams, gels, lotions, emulsions
- ▶ Pharmaceuticals: ointments, suspensions, gels
- ▶ Mining and construction: cement slurries, drilling fluids

FEATURES

- ▶ Ball-bearing (VTiQ) and air-bearing (VTiQ Air) models
- ▶ Torque range: 0.2–100 mNm (VTiQ) / 0.01–100 mNm (VTiQ Air)
- ▶ Rotational speed: 0.01–1500 rpm
- ▶ Frequency range: 0.1–20 Hz (VTiQ) / 0.1–50 Hz (VTiQ Air)
- ▶ Oscillation mode for G' , G'' , $\tan \delta$ viscoelastic characterisation
- ▶ Measuring geometries: coaxial cylinders, double-gap, parallel plates, cones, vane rotors
- ▶ Peltier temperature module: –5 to 160°C (cylinders) / 0 to 140°C (plates)
- ▶ Liquid temperature module: –20 to 180°C
- ▶ Electric heater module: up to 300°C
- ▶ Smart Lift: one-hand gap setting for parallel plate geometries
- ▶ Connect Assist: automatic rotor and sensor recognition on connection
- ▶ Temperature Assist: dynamic heat-transfer modelling
- ▶ Standalone touchscreen, RheoApp (USB), or PC software control
- ▶ Connectivity: TCP/IP, 2× USB
- ▶ Universal power supply: 100–240V, 50/60 Hz

- ▶ Polymers: melt and solution viscosity
- ▶ Petrochemicals: lubricants and fuel additives
- ▶ Quality control and incoming material inspection
- ▶ Research and method development