

## Laboratory Instrument

### Lab Resources

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#### 1. RION Viscotester



A. Viscotester VT-03F for low viscosity fluids  
Measurement range: 2 to 330 mPaos (cP)  
It is compact and fits conveniently in one hand  
With dry batteries as a power source, it is portable for use anywhere on site  
It gives a viscosity reading immediately after switching on  
Allows direct reading of viscosity in dPaos or mPaos  
Stand and AC power adaptor are also optionally available

#### **Specification**

Measurement Range 2-33 mPos, using No.4 rotor  
Measurement Range 15-150 mPos, using No.5 rotor  
Measurement Range 50-330 mPos, using No.3 rotor  
Accuracy within  $\pm 3\%$  of the full meter deflection  
Rotating Ratio of the Rotor 62.5rpm  
Dimensions and weight 4 X 1.5V IEC R6, ANSI AA  
Dimensions and weight 18 X 10 X 4 cm Approx. 580 g



B. Viscotester VT-04FÂ for high viscosity fluids  
 Measurement range: 30 to 400,000 mPaos (cP)  
 It is compact and fits conveniently in one hand  
 With dry batteries as a power source, it is portable for use anywhere on site  
 It gives a viscosity reading immediately after switching on  
 Allows direct reading of viscosity in dPaos or mPaos  
 Stand and AC power adaptor are also optionally available  
**Specification**  
 Measurement Range 0.3-13 dPos, using No.3 rotor in combination with No.3 Cup  
 Measurement Range 3-150 dPos, using No.1 rotor  
 Measurement Range 100-4,000 dPos, using No.2 rotor  
 Accuracy within ±10% of meter indication  
 Rotating Ratio of the Rotor 62.5rpm  
 Dimensions and weight 4 X 1.5V IEC R6, ANSI AA  
 Dimensions and weight 18 X 10 X 4 cm Approx. 580 g  
 For more information, please download the Rion Viscotester brochure [HERE](#).

### 2. Analog Modular Block



Dri-baths can be customized by choosing the modular blocks with well sizes to fit specific applications. Aluminum modular blocks provide excellent heat transfer to tube contents to enhance your testing results. All blocks include thermometer well for easily measuring block temperature. Choose from temperatures to 110°C, 115°C or 140°C. Customize your bath with a removable block. Available in single or three block models.

### 3. Heating Mantles





Vented case creates a unique air flow which allows housing to be safe to the touch when in use. Outer housing is constructed of chemical resistant and resilient polypropylene minimizing damage from spillage. Element temperature range from ambient to 450°C. The coiled heating element is suspended within a thermal insulating cartridge to provide maximum heat transfer and support. The flexible heating element ensures minimum risk of flask breakage. Capacity available : 50, 100, 250, 500, 1000, 2000, 3000 and 5000 ml.

#### 4. Cimarec Digital Hot Plates / Cimarec Digital Stirring Hot Plates



Easy-to-read digital display indicates temperature settings, adjustable in 5° increments, from 5° up to 540°C (41° to 1004°F), depending on model. Microprocessor-controlled feedback technology maintains consistent, repeatable temperature settings. Ideal for labs that perform repetitive procedures. Hot surface alert safety systems protect from accidental burns. Bright red warning lights signal when heating surface is above 50°C (122°F). Unit display flashes "HOT" - "OFF" when heating is turned off, until heating surface is below a cool 50°C. Integral ring-stand holder accommodates 0.5" (1.3 cm) diameter support rod. Accommodates sample weights to 35 lb. (15.9 kg) on the 10" x 10" models, 25 lb. (11.3 kg) on 7" x 7" models and 15 lb. (6.8 kg) on 4" x 4" models. Choose from Ceramic or Aluminum Top. All models supplied with detachable cord and 2" x 3/8" dia. TFE-coated stir bar, (4" x 4" units include 1" stir bar). StirTrac(TM) technology offers improved slow speed stirring, consistent speed control and stronger magnetic coupling. The StirTrac braking feature brings the stir bar to an immediate stop for quick flask removal. Adjustable speed range from 50 to 1200 rpm.



### 5. Orbital Shaker



Choose from three temperature ranges to fulfill a variety of molecular biology, protein expression, and plasmid purification studies. Clear lid allows you to view samples without disturbing internal temperatures. Optional gassing manifold permits introduction of CO<sub>2</sub> into chamber.

### 6. Manual Melting Points Apparatus





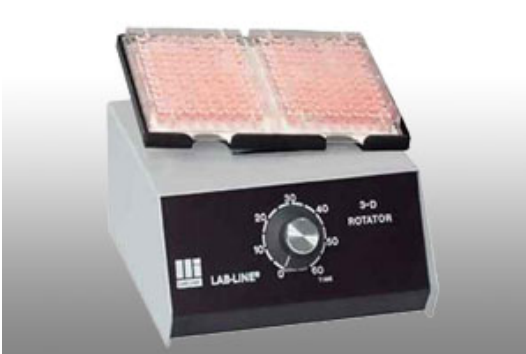
Aluminum casting conducts and radiates heat uniformly to capillaries and thermometer. Heating chamber consists of aluminum heating block which avoids the hazards and mess associated with oil baths. Sample observation is enhanced by an integrated light and precision 6X lens. Three thermometer options are available: mercury-filled thermometer, precision digital thermometer or student digital. Includes 1 vial of 100 capillaries.

#### 7. Variable Speed Platform Angle Rockers



Provides gentle, adjustable-angle rocking. Ideal for applications such as hybridization blotting or staining and destaining gels. 15.4" x 15.4" (39 x 39 cm) non-skid platform accommodates many types of labware. White platform mat allows easy viewing of labware contents. Durable steel body encloses motor to prevent hazardous spills onto drive mechanism.

#### 8. Rotators



Designed to provide long life and dependable service in a variety of applications, particularly molecular biology, immunology and clinical usage. Ideal for general rotation of many types and sizes of vessels including plastic/glass trays, vials, petri dishes, microwell plates, culture plates, slides, test tubes and agglutination cards. Variable speed from 40 to 220 rpm for gentle to vigorous agitation adjustable with a rotary dial. 9" x 9" (23 x 23 cm), and 12" x 12" (31 x 31 cm) platforms available, with non-slip.

#### 9. Sterilizers



Largest bench top sterilizer chamber available - accommodates three 2 liter Erlenmeyer flasks. Non-recirculation option ensures debris and contaminants are not recycled through the sterilizer keeping the unit running longer with less cleaning. Four preset cycle programs allow one touch operation for liquids, wrapped goods unwrapped goods and packs. The 12" x 18" (30.4 x 45.7 cm) chamber contains removable racks and trays for smaller loads and other unique sterilization requirements. Remove racks for easy cleaning. Easy-to-read LCD display lets you view sterilization and diagnostic programs and displays all aspects of cycle for quick visual verification. Three locks on chamber door ensure your safety. Door will not open until chamber is depressurized. The SterileMax is ASME, UL, CE and CUL approved. Built to AAMI - ST-55 specifications. Independent validation testing\* for sterility, accuracy and verification of all programs. Meets all current requirements for tabletop sterilizers.

\*Testing completed by Biotest Laboratories, Minneapolis, MN.

#### 10. Ultrasonic Cleaner



## "Sweep Technology for Efficient Homogeneous Cleaning"

Sweep technology for better power distribution and better cleaning results. Heat setting is adjustable from 30 - 80°C. Optional four position sieve cleaner available. Barnstead's AquaWave ultrasonic cleaners incorporate sweep technology. Sweep technology creates homogeneous sound distribution, optimizing cleaning results. The ceramic heating element is dry run proof. Pilot lamps for cleaning period and temperature. Set a specific run time from 0 to 30 minutes or run in continuous mode. For safety, the unit automatically shuts off after 12 hours. Included plastic lid cover also serves as a drip tray when turned upside down. Filling level marked in the tank. Larger models feature an easy turn drain for convenient bath drain. All units have temperature setting between 30 and 80°C in 5-degree increments. Eight sizes available including a bath designed to clean pipets. Optional four-position sieve cleaner for use with the 28 L bath for fast efficient sieve cleaning. Capacity available : 1.75, 2.75, 5.75, 9.4, 12.75, 18, and 28 Liters.

### 11. Vortex Mixers



Excellent for mixing single tubes, multiple tubes and small flasks. Continuous operation or touch-on mode. Ensures fast, uniform mixing. Compact design. Designed with a heavy cast aluminum body to provide optimum bench-top stability. The mixer has two modes of operation: Continuous operation when you need to mix a quantity of tubes in sequence; intermittent operation is activated by touching the cup attachment with a test tube. Equipped with a single tube mixing cup for single tube mixing and a soft foam pad and mixing platform for mixing 1 - 4 test tubes simultaneously.

### 12. NANOPure Diamond Analytical and UV Systems





Choose from four application specific models--then customize your system with the best cartridge pack for your needs. Multi-language display. Bring your water to your work--with the optional remote dispenser. Water can be dispensed up to 8 feet from your system. One model accounts for worldwide voltages and fluctuations. Universal design allows for wall or bench mounting. Feed water pressure fluctuations are no problem with the Diamond. Every system comes complete with a pressure-regulating valve. TOC (Total Organic Carbon) analyzer models available. Volumetric and timed dispense features allow you to fill carboys without monitoring. Feed water and application specific cartridge packs provide for optimum removal capabilities of unwanted contaminants. Delivers up to 1.6 liters per minute of purified water. All components are constructed of extremely inert materials ensuring maximum ionic and organic purity. System Diagnostics allows you to evaluate important system functions and alerts you if a problem exists. The system can be programmed to alert you if the water quality drops below your desired set point. RS232 output enables you to print or save vital system information to a computer or an optional printer.

### 13. Diamond RO



Three systems are available providing product water flow rates of 6, 12 or 24 liters per hour. Short on space... The Diamond RO small footprint allows you to mount it virtually anywhere. 12 and 24 liter per hour system uses new pump technology to provide for silent operation. 6 liter per hour system uses available in-house line pressure. One model all voltages. CSA and CE listed. Can be Wall mounted or Bench mounted. No additional components are needed. Each system supplied with everything you need for operation; arrives complete with prefilter, MPS (Membrane Protection System) cartridge, extruded carbon filter and membrane(s). Unique Membrane Protection System cartridge eliminates the need to soften your water. Automatic flush cleanses the RO membranes helping to eliminate the build-up of scale on the membrane assuring you maximum membrane life. A series of internal pressure gauges allow you to monitor membrane operating pressure and pressure drops across the pretreatment filters. Controls provide for fully automatic operation. Monitor system operation with indicator lights on the control panel alerting you of vital information including membrane performance and reservoir level. Mount your controls and indicators up to 10 feet (3 meters) away from your system with the remote mounting control panel accessory.

### 14. NANOpure Diamond UF and UV/UF Systems





Choose from four application specific models--then customize your system with the best cartridge pack for your needs. Multi-language display. Bring your water to your work--with the optional remote dispenser. Water can be dispensed up to 8 feet from your system. One model accounts for worldwide voltages and fluctuations. Universal design allows for wall or bench mounting. Feed water pressure fluctuations are no problem with the Diamond. Every system comes complete with a pressure-regulating valve. TOC (Total Organic Carbon) analyzer models available. Volumetric and timed dispense features allow you to fill carboys without monitoring. Feed water and application specific cartridge packs provide for optimum removal capabilities of unwanted contaminants. Delivers up to 1.5 Liters Per Minute of purified water. All components are constructed of extremely inert materials ensuring maximum ionic and organic purity. System Diagnostics allows you to evaluate important system and alerts you if a problem exists. The system can be programmed to alert you if the water quality drops below your desired set point. RS232 output enables you to print or save to a computer or an optional.