

LABORATORY EQUIPMENT RENTAL CATALOGUE

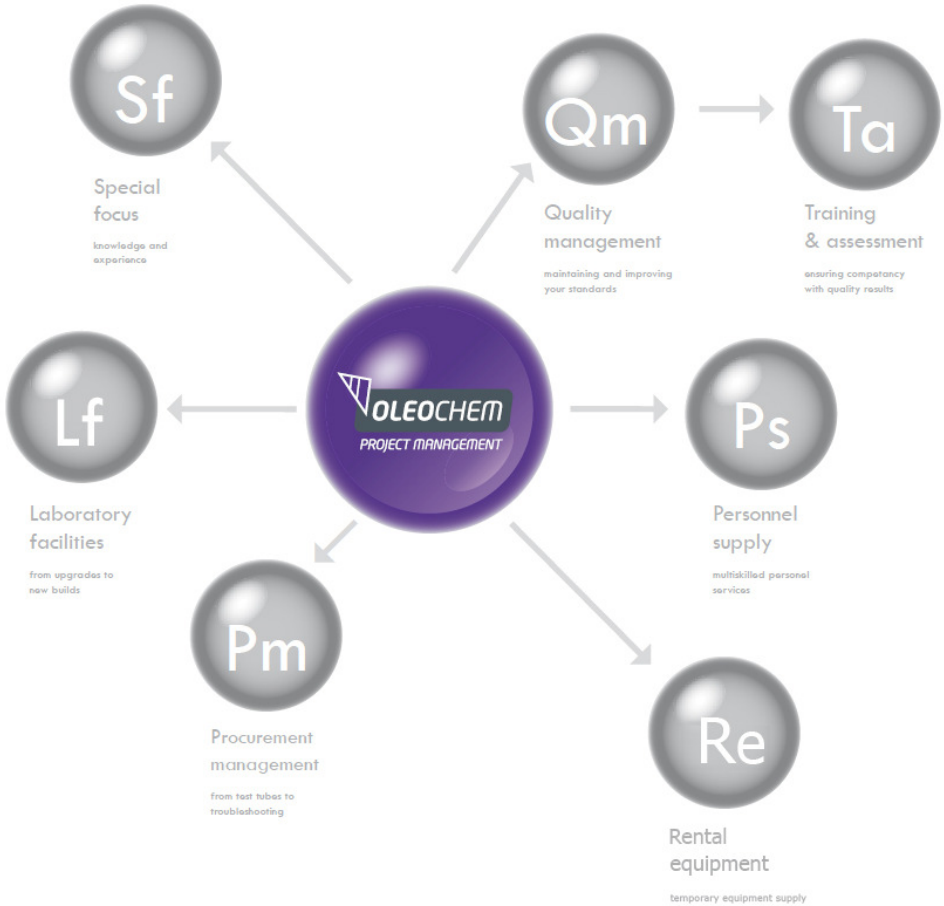


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OLEOCHEM EQUIPMENT RENTAL

One of the most important decisions when choosing to rent equipment is the supplier. With our proven track record already established, Oleochem Project Management are a recognised global market leader in Production Chemistry and Laboratory Services. Our integrated suite of services can be requested as individual elements or combined to provide a complete Turn Key Laboratory Solution. One of those such elements is our rental equipment, as detailed within this guide.

Oleochem prides itself on our professional staff who are committed to helping our clients by providing rental equipment, for long or short term periods.

Combined within the rental package, Oleochem Project Management can often also take care of the calibration or repair of your own instrument. Thus allowing you to use a single source supplier, resulting in less hassle and paperwork.

Using strict in-house procedures, all equipment is photographed and checked prior to dispatch to ensure that the instrument is functioning and ready to use.

Within this guide, you will find information on a few of our common rental items. However, if you find yourself requiring any laboratory equipment not listed hereafter, please do not hesitate to contact one of our team who will be more than happy and willing to help.

For all enquiries please contact us on +44 (0)1224 729966 or e-mail us at enquiries@oleochem.com.

HETTICH EBA20 PORTABLE CENTRIFUGE

SUMMARY:

The EBA 20 is a compact and practical centrifuge designed for small sample volumes.

Fitted as standard with an angle rotor for 8 tubes, up to a volume of 15 ml, the EBA 20 attains a max. RCF of 3,461.



FEATURES:

- Small, lightweight & portable.
- RPM of 6000 min⁻¹ & RCF of 3,461.
- Accepts a wide variety of commercial tubes.
- Glass tubes can be accommodated without adapters.
- Automatically switches off if imbalance detected.

SPECIFICATIONS:

- Dimensions: 22 x 23 x 29 cm
- Weight: 4KG Approx
- Power: 208—220V, 50-60hz, 65VA
- Max Capacity: 8 x 15ml Tubes
- Max Ø x L: 17 x 120mm
- Max RPM: 6000 min⁻¹
- Max RCF: 3,461
- Running Settings: Continuous, Timed, Short Cycle (Impulse Key)
- Running Time: 01—99 Minutes
- Frequency Drive: Yes
- Imbalance Shut-off: Yes
- Can be supplied with API 2542 Tubes & Suitable Rack.

ANTON PARR DMA35_N HAND HELD DENSITY METER

SUMMARY:

The DMA 35N handheld digital density meter defines the state of the art of portable density measurement. Designed for use in the most demanding industrial environments, the DMA 35N gives you the density, specific gravity or % concentration of your sample. Simply press the lever on the built-in pump and within seconds the results are shown on the large, bright display.



Based on harmonic oscillator technology, the DMA 35N is extremely light (only 275 grams). There is no need to save the data for later analysis, press a button and the measured results are stored in internal memory and can easily be transferred to a computer or printed later.

FEATURES:

- Small, Compact, Lightweight & Rugged Design
- Ergonomically designed to stop Fatigue, even after hundreds of samples.
- Pipette Style Pump
- State-of-the-art Electronics

SPECIFICATIONS:

- Power: 2 x AAA Batteries
- Dimensions: 14 x 13 x 3 cm
- Weight: 275g
- Range: 0 - 1.999 g/cm³
- Accuracy: ± 0.001 g/cm³
- Repeatability: 0.0005 g/cm³
- Resolution: 0.0001 g/cm³
- Memory: 1024 Values
- Sample: Approx 2ml

GRABNER MINIFLASH CLOSED CUP FLASHPOINT TESTER

SUMMARY:

A uniquely designed flash point series of instruments, the Miniflash is used for the automatic determination of the flash point of liquids & solid samples according to ASTM D7094.

The Miniflash series of instruments utilises the method of measuring the instantaneous pressure increase inside the continuously closed chamber due to a high energy electric arc. Heating the test chamber from the top avoids condensation of high volatile compounds, significantly improving the test results.

Ignition Protection Technology is fundamental to the instruments design. Only 1-2 mL of sample is required for testing the flash point. The continuously closed cup design, automatic explosion probing and a controlled air feed protect against fire and offensive fumes.



FEATURES:

- Ignition & Peltier Protection Technology
- Only a 1 - 2ml Sample
- Approved By NATA, US D.O.T, RCRA, US Navy
- Wide Measuring Range

SPECIFICATIONS:

- Power Supply: 230V AC, 60Hz, 150W. Or 12V DC, 8A.
- Dimensions: 20 x 32 x 18 cm
- Weight: 9 Kg
- Temperature Range: 0 - 200°C / 32 - 390°F
- Sample Volume: Max 2ml (ASTM Dependent)
- Cup: Closed - No Open Flame or Hazardous vapours.

GRABNER MINIVAP VPSH RVP TESTER

SUMMARY:

The Minivap VPSH is an extremely versatile instrument for the automatic determination of the vapour pressure behaviour of gasoline, gasoline oxygenated blends, live or dead crude oil, solvents and other chemical compounds. The VPSH, now the world wide standard & US-EPA official reference instrument, is used by most major refineries, oil and pipeline companies, independent laboratories and car manufacturers.



The VPSH is a stand-alone unit that does not require any accessories other than the Floating Piston Cylinder for Crude Oil Analysis. The unique piston based design for automatic sample introduction and volume expansion of the measuring cell makes an expensive and bulky vacuum pump unnecessary. The VPSH eliminates operator bias and has a considerably improved test precision.

FEATURES:

- Fully Automated Procedure
- Automated Cleaning Procedures
- Portable allowing for Lab & Field Use
- Precision Exceeds ASTM D6378.
- No Vacuum Pump Required

SPECIFICATIONS:

- Power: 230V, 60Hz, 150W
- Dimensions: 20 x 32 x 21 cm
- Weight: 7.6 Kg
- Temperature Range: 0 - 100°C
- Pressure Range: 0 - 1000 kPa (0 - 145PSI)
- Vapour / Liquid Ration: 4/1 STD. Adjustable.

KYOTO DMA-300 DENSITY METER

SUMMARY:

The DA-300M Density Meter measures the density of gases, liquids and solutions using the well established and reliable oscillating body method. It is distinguished from the rest by its temperature range and measurement accuracy.

Already fitted with the automatic sampling unit, with its membrane pump it allows to aspire samples of low to medium viscosity directly into the measurement tube, and to empty, rinse and dry it after the measurement. The ASU also has the fitted drain bottle allowing for simple, effortless emptying of drained samples.



FEATURES:

- Built-in Thermostatic Unit
- Automatic Sampling Unit
- Built-In Printer
- Ability to set 7 Methods
- Low Sample Volume - Approx 2ml.

SPECIFICATIONS:

- Power: 220-240V, 50/60Hz, 100VA
- Dimensions: 29 x 33 x 34 cm
- Weight: 21 Kg
- Measuring Temperature: 4 - 90°C
- Temperature Control Accuracy: $\pm 0.01^\circ\text{C}$
- Temperature Setting Accuracy: $\pm 0.1^\circ\text{C}$
- Max Cell Pressure: $3\text{Kg}/\text{cm}^2$
- Accuracy: $1 \times 10^{-4} \text{g}/\text{cm}^3$

SHAW SADP-G DEW POINT METER

SUMMARY:

The SADP is a battery operated portable unit designed for spot checks or continuous use, and gives direct reading in dewpoint temperature & parts per million (ppm) on an easy to read 12cm analogue scale.



The SADP can be used to give a continuous reading as long as sample gas is flowing through the test chamber of the instrument, a reading will be given of the gas moisture content. On the other hand accurate readings are produced in a matter of a few minutes when performing spot checks.

FEATURES:

- Measures moisture in air or gas samples with positive pressure.
- Accurately calibrated and ready for use.
- A guaranteed accuracy better than one ppm moisture in dry air.
- Intrinsically safe as standard.
- Reads dewpoint temperature and ppm moisture in air or gas.
- Fast, one second for 99% response, 'dry to wet'.
- 5 second user accuracy check in room air-unique to Shaw.
- Automatic dry down and calibration.

SPECIFICATIONS:

- Accuracy: +/- 1ppm, +/- 4 deg.C DP
- Material: Stove Enamelled Zinc Plated Steel With Alloy Case.
- Dimensions: 20 x 22 x 28 cm (32cm high with head extended)
- Weight: 4KG Approx
- Display: 12cm Taut Band Indicating Meter.
- Sensor: Grey Spot (Internal Connection)
- Sensor Range: -80 / 0 deg.C DP, 0—6000 ppm
- Sampling: Atmospheric Pressure with flow rate of 5-10 L/Min
- Power: 9V DC (6 Internal R14P Batteries) Non-Rechargeable.

SRI 8610C GAS CHROMOTOGRAPH

SUMMARY:

Small and compact compared to other comparable GC's, the 8610C is designed to amaze. From its ability to mount up to six detectors, 5 injectors and remains small and portable enough to pass as baggage on an airline.



OPM Supply our GC as an “all-in-one” package at a fixed price. This includes the GC, accessories, carrier gas, laptop with software and qualified chemist.

Our 8610C is configured as a Natural Gas Analyzer GC System including TCD detector, 10 port sampling valve, 1m Hayesep D packed column, 30m x 0.53mm MXT-1 Capillary column and includes SRI's own Peak Simple Data System.

FEATURES:

- Compact size, easy to find space in the lab.
- Can be amended to virtually any EPA or ASTM method.
- Ambient—400°C Column Oven.
- Electronically Operated. Helium is only gas required.

SPECIFICATIONS:

- Dimensions: 48 x 34 x 37 cm
- Detectors Possible: 6
- Injectors Possible: 5
- Detector: TCD
- Column Oven Temperature Range: 25—400°C
- Heating Rate: 50°C per minute to 300°C; 20°C per minute thereafter.
- Cooling Rate: 300 - 50°C within 5 Minutes.
- Stability: $\pm 0.1^\circ\text{C}$
- Sampling Valve: 10 Port
- Column(s): 1ml Hayesep D packed column
30m x 0.53mm MXT-1 Capillary column

GAS DETECTION PUMPS

SUMMARY:

OPM have two types available, the Kitagawa and the Gastec hand detection pump system is a complete sampling and analysis system for determining hazardous gas and vapour concentrations quickly and easily. The gas detector tube system is comprised of an Air Sampling Pump and Precision Gas Detector Tubes.



Each detector tube is formulated with high purity reagents that absorb and react with the target gas or vapour being measured. A colorimetric stain is created that is read directly off the measurement scale on each tube.

The Kitagawa air sampling pump reproducibly draws 100cc of sample air through the detector tube. All detector tubes are calibrated for a single pump stroke; there is no need for multiple volumes or stroke counters.

The Gastec detector tube system comprises two major components; the patented precision piston-style pump, which utilises an easy draw, and the Gastec standard detector tubes, which give a precise and easy to read colour change. The Gastec pump has a huge variety of tubes available.

FEATURES:

- Compact size, can be carried anywhere.
- Low cost compared to other test methods.
- 600+ tubes to cover a wide range of gasses and vapours.
- Wide variety to measurement ranges available.
- Can be used by anyone with minimal instruction.

SPECIFICATIONS:

- Gas / Vapour Tube Types: 600 +
- Weight: 1kg Approx
- Stroke Quantity: 100ml Sample.

OPM OIL IN WATER PACKAGE

One of the primary requirements of an oilfield lab is the close monitoring of oil concentration in water. Whether it be for discharge or re-injection, there are strict rules concerning the techniques and equipment required for this type of analysis.

To aid clients wishing to carry out temporary field monitoring or on site trials, Oleochem can arrange for a full oil in water analysis kit to be dispatched.

The standard kit includes:

- Benchtop fume hood
- Buck HC-404 IR spectrophotometer
- Glassware (separating funnel, volumetric flasks, pipettes, quartz cells etc)
- 1PS filter paper
- pH paper
- Lens tissue
- 500ml sample bottles
- Retort stand & clamps

Optional extras available:

- Oven
- Florisil
- Desiccator
- Nitrile Gloves
- IR Thermometer
- Tetrachloroethylene (JT Baker, 4L bottles)
- 50% Hydrochloric Acid Solution
- Burette dispenser for TTCE
- Micro syringe for calibration standards

We are aware that site facilities may already include some of the above kit which is why we would encourage any prospective clients to complete our “Oil in Water Checklist” prior to hire to ensure that only relevant items are dispatched. Additionally this kit can be accompanied by one of our site service chemists for offshore analysis or onsite familiarisation training.

HACH DR3900 SPECTROPHOTOMETER

SUMMARY:

Possibly one of the most versatile and useful instruments for water chemistry testing. Built in methods allow for direct readings and data can be stored on a removable USB stick for easy data transfer. To further assist clients with their own bespoke needs, Oleochem can also provide the associated cells, adapters and reagent kits. Despite the fact that this is a new model, many of the old cells and methods are compatible which means that the DR3900 can be used either for many applications as well as during the servicing/repair of older models with minimal disruption to routine testing.



The flexibility of a quality spectrophotometer makes this a primary instrument for any offshore lab.

FEATURES:

- 2000 Measured Value Data Logger.
- Automatic Wavelength Calibration.
- 1 Ethernet & 3 USB Ports.
- Over 35 different tests available.
- 100 User Programs.

SPECIFICATIONS:

- Dimensions: 15 x 35 x 26 cm
- Weight: 4.2 kg (9.26 lb)
- Power Requirements: 100 - 240 VAC, 50/60 Hz.
- Operating Modes: Transmittance (%), Absorbance or Concentration.
- Light Source: Gas-filled Tungsten (visible)
- Wavelength: 320 to 1100 nm
- Wavelength Resolution: 1 nm
- Data Logger Fields: Result, Date, Time, Sample ID, User ID
- Rectangular Cuvettes: 10, 20, 30, 50mm & 1".
- Round Cuvettes: 13mm & 1".

BUCK HC-404 HYDROCARBON ANALYSER

SUMMARY:

The HC-404 is an all-in-one, fixed wavelength infrared analyzer designed for swift accurate analysis of total petroleum hydrocarbons (TPH) in water, soil and sludge samples.

Approved By DECC for offshore Oil in Water analysis and meeting OPPC - Oil Pollution Prevention and Control) Regulations 2005.



FEATURES:

- Fixed wavelength 2924cm⁻¹ (3.42μ) allows for quick analysis without unnecessary scanning.
- Digital readout in %T and absorbance
- Accommodates 10, 50, 100mm quartz cells for analysis, with 1ppm or less detection levels.
- Built-in scale expansion and extended linear range for high concentration, using a simple 3-step calibration.
- Small foot print requires minimal lab space.

SPECIFICATIONS:

- Wavelength: 2924 cm⁻¹ (3.42 microns)
- Bandwidth: 30 cm⁻¹ (0.04 microns)
- Sample Space: Accommodates up to 100 mm cell
- Readout: %T, 0-2A, Conc. 0-1, X 0.1
- Electrical Requirements: 120/240 VAC, 50/60 Hz, 80 watts
- Dimensions: 14" W, 11" D, 10" W
- Weight: 20 lbs. Approximately
- Detector: Cooled PbSe
- Source: Tungsten, Quartz - Halogen

BECKMAN COULTER Z1-DT PARTICAL COUNTER

SUMMARY:

The Z1 Dual Threshold Model uses Electrical Sensing Zone Method for counting particles . This technique boasts accuracy, speed, versatility, and excellent precision; it is the established reference method for cell counting.

The Z1-DT counts cells or particles in three regions, equal to or above the operator selected lower size, above the upper size setting and between the two sizes. Excellent when cell numbers between a selected size range are required.



FEATURES:

- Mercury Free
- Absolute cell counts or concentration
- One-Button Calibration
- Small Footprint
- Certified to ISO 9001 by NSAI Quality Assurance
- Technology defined by an International Standard (ISO 13319:2000)
- Store up to 5 analyses settings (Profiles)

SPECIFICATIONS:

- Dimensions: 27 x 36 x 46 cm (Without Keyboard)
- Weight: 13.6 kg (30 lb)
- Power Requirements: 120/240 VAC \pm 10%, 50/60 Hz. <55W
- Overall Analysis Range: 1 μ m to 120 μ m diameter
- Aperture Tube Analysis Range: 2% to 60% of aperture size
- Aperture Tube Sizes: 100 μ m (Others may be available)
- Dynamic Range of Aperture: 3:1 by diameter, 27:1 by volume
- Linearity: Linear response \pm 1% of pulse height over selected range
- Metered Volumes: 100 μ L, 500 μ L, 1000 μ L
- Number of Channels: 64, 128, and 256 size distribution
- Resolution: User Selectable

GR SCIENTIFIC COU-LO SELECT KARL FISHER

SUMMARY:

The Cou-Lo Select was purposely designed to meet the needs of the crude oil and petrochemical industries. It is pre-programmed to deliver the results you need with minimal training. The operator can access a range of sample volumes, densities and weights by means of intuitive arrow cursor controls. Hard copies of results are provided by a built in printer.



At the heart of the Cou-Lo Select you will find the state of the art, patent pending, ACE Control System, which guarantees that the electrolysis current produced & the count rate displayed are always correctly synchronized, regardless of changes to the electrolysis cell resistance.

FEATURES:

- Designed For Crude Oil & Petrochemical Industries.
- Low Drift Cell
- Portable
- ACE Control System

SPECIFICATIONS:

- Power: 230V, 60Hz or 12VDC or Internal 12VDC Battery.
- Dimensions: 25 x 25 x 12 cm
- Weight: 3Kg (Excluding Carry Case)
- End Point Detection: AC Polarisation
- Range: 1 μ g - 100mg Possible. Typically 1 μ g - 10mg
- Max. Sensitivity: 0.1 μ g
- Max. Titration Speed: 2mg/min
- Drift Compensation: Automatic
- Calculation Modes: Volume, Density, User Programmable

WILKS INFRACAL CVH HYDROCARBON ANALYSER

SUMMARY:

Measuring oil content in water is a specialty of the InfraCal TOG/TPH. These extremely portable analyzers let you make on-site PPM measurements to help ensure your up or downstream wastewater complies with discharge permits and avoid potentially costly DECC fines.



Today, there are over 2,500 InfraCal analyzers in operation around the world measuring on drilling platforms, FPSOs, mud labs and refineries to name a few.

Designed specifically to be rugged, compact, and easy to use by non-technical personnel, InfraCal analyzers have grown to be the worldwide industry standard for on-site oil in water analysis, providing measurement results in less than 15 minutes.

FEATURES:

- Measures TOG, TPH & FOG
- Small, Lightweight, extremely portable.
- Ultra Clear 4 Digit, 7 Segment LCD Display
- Reliability - Over 2500 in operation around the world.
- Measures All Hydrocarbons.

SPECIFICATIONS:

- Power: 230V, 60Hz Or 12V Battery
- Dimensions: 17 x 17 x 13 cm
- Weight: 2 Kg
- Min. Detection Limit: 2PPM
- Repeatability: ± 1 PPM
- Operating Temperature: 4°C - 45°C

CLIFTON NE1-28 WATERBATH

SUMMARY:

The NE1 series, Thermostatic Clifton analogue baths are designed for general use. Our rental unit can contain up to 28 litres and comes complete with a removable Clifton "low" height stainless steel perforated shelf. This allows the bath to be used with less water than traditional water baths or allows samples or tall vessels to be immersed to greater working depth.



The NE1 series is constructed using a 304 spec (18/8) stainless steel tank housed in a durable paint finished outer case. Durable powder coated exterior, chemical resistant and now featuring an "Anti-bacterial paint finish" that inhibits the growth of bacteria

FEATURES:

- Removable Clifton "low" height stainless steel perforated shelf.
- 28 Ltr Capacity.
- Variable thermostatic temperature control.
- Element overheating safety cut-out.

SPECIFICATIONS:

- Internal Dimensions: 50 x 30 x 20 cm
- External Dimensions: 54 x 33 x 29 cm
- Weight: 12kg Approx
- Temperature Range: Ambient +5 - 100°C
- Temperature Control: Analogue, 5°C Divisions
- Element overheating safety cut-out
- Power: 230V, 50-60hz, 1500W

PALL PCM400

HYDRAULIC FLUID CLEANLINESS MONITOR

SUMMARY:

The PCM400 is purposely developed as a portable diagnostic monitoring instrument that provides an assessment of fluid cleanliness.

The PCM400 aids with early detection of abnormal fluid cleanliness allowing for well-timed investigations and corrective actions to be implemented.



The adaptability of the instruments allows it to be permanently installed to monitor critical applications or used as a portable device for routine monitoring.

FEATURES:

- Designed To Be Portable.
- Proven mesh blockage technology
- Results not affected by water or air
- Monitors dissolved water content (PCM400W only)
- High and low pressure on-line or off-line sampling
- Continuous monitoring
- Real time graphical representation

SPECIFICATIONS:

- Power: 230V UK Plug or Internal 19VDC Battery.
- Dimensions: 34 x 24 x 27 cm
- Weight: 10.8 Kg
- Temperature: 10°C—80°C
- Seals: Fluorocarbon
- Viscosity: 1.5—45 cST
- Protection: IP65 (NEMA)
- Standards: ISO 4406, NAS 1638 & SAE AS 4059

IKA ULTRA TURRAX T25 / T50 DISPERSING INSTRUMENT

SUMMARY:

ULTRA-TURRAX - the proven and precise dispersing technology, 60+ years, enables these devices to provide the best possible results whether used for homogenization, emulsification or suspensions.

The IKA range of dispersers are used for volumes ranging from 0.25 to 30,000 ml (H₂O) and come equipped with a digital display. These dispersers offer a wide speed range up to 25,000 rpm that enables users to work at high circumferential speeds even with small rotor diameters. The high-performance drive ensures immense speed stability. Due to their broad spectrum of dispersing tools, IKA dispersers are highly effective for a variety of uses.



FEATURES:

- Digital Speed Display
- Electronic Overload Protection
- Wide selection of Stainless Steel & Disposable Tools
- IP20 Protection

SPECIFICATIONS (T25/T50):

- Power: 220—240V, 60Hz, 700w / 220—240V, 60Hz, 1100w
- Weight: 2.5Kg / 5.8 Kg
- Max Viscosity: 5000mPas / 5000mPas
- Speed Range: 3000 - 25000 RPM / 600 - 10000 RPM
- Speed Deviation: 1% / 1%
- Timer: No / No
- Noise Without Tool: 75db / 72db
- Volume Range: 0.001 - 2L / 0.25 - 30L

HANNA HI-2211-02 BENCHTOP PH METER

SUMMARY:

The Hanna HI 2211 is a microprocessor-based pH & temperature bench meter. The 2211 can also be used for ion concentration (ISE) and Oxidation Reduction Potential (ORP) in the mV range.



pH measurements are compensated for temperature effect manually or automatically with the HI 7662 temperature probe.

The instrument is equipped with a large easy-to-read LCD which shows the pH (or mV) and temperature simultaneously, together with graphic symbols.

The calibration process is guided step by step through clear indications on the LCD. A stability indicator makes the calibration procedure error-free.

FEATURES:

- Automatic Calibration
- Calibration Expiry Reminder
- Automatic Temperature Compensation
- ORP Range
- Wide pH Range

SPECIFICATIONS:

- Power: 12VDC Adaptor (230V Mains)
- Dimensions: 24 x 23 x 11 cm
- Weight: 1.3 Kg
- pH Range: -2.00 - 16.00
- mV Range: ± 399.9 ; ± 2000
- pH Resolution / Accuracy: 0.01 / ± 0.01
- mV Resolution / Accuracy: 0.1 / ± 0.02

MONMOUTH CIRCULAIRE 550

FUME CABINET

SUMMARY:

The Circulaire 550 takes up minimal bench space, yet has the carbon filter capacity of a much larger unit. The 12kg filter will be chosen specifically for your intended use to ensure the best possible containment. In addition, the Circulaire 650 boasts a large working aperture, built-in low airflow alarm, low operating noise level, cable entry port

The folding sash allows outstanding access to the work area and overhead lighting ensures a safe and easy working environment. Finally, the Circulaire 550 is manufactured from Epoxy coated Zintec steel to ensure years of uninterrupted service.



FEATURES:

- Working Aperture: 50 x 30 cm
- 18W Internal Lighting
- PP Spill Tray
- Sparkless, Brushless Centrifugal Fan

SPECIFICATIONS:

- Power: 240V, 350W
- Weight: 55kg (Approx Inc. 12kg Filter)
- External Dimensions: 55 x 56 x 114 cm
- Internal Dimensions: 50 x 51 x 76 cm
- Face Velocity: <0.5 m/s
- Airflow: 250 m³/hr