

Eddy Jet

Fundamentals

The principle of the spiral method is to spread the sample at a decreasing rate in an Archimedes spiral. The objective of this method is to cover one thousand fold dilution range on a single plate reducing the number of serial dilutions and plates required.

Disposable micro-syringe

World wide patented system to eliminate forever the mistrust in the classical spiral spreading instruments. Each sample remains during the whole process inside the disposable micro-syringe.



CAT. NO.	DESCRIPTION	PRICE
IU1700-000	Eddy Jet automatic plater for spiral reading with all programs installed. Complete with 1000 syringes and 1000 sample cups.	\$16,050.00
IU1715-000	Plate for 15 cm Petri dishes	\$415.00
IU1780-000	Syringes. Pack of 1000 in boxes of 10 for use with the automatic feeder	\$ 210.00
IU1790-000	Cups. Pack of 1000 disposable. Syringes and cups are irradiated with gamma-rays.	\$99.00

SPECIFICATIONS

Plunger Syringe Motor	Step by step, 7.5°, 9 W
Turn Table Motor	Step by step, 7.5°, 9 W
Radial Displacement Motor	Step by step, 7.5°, 9 W
Maximum Syringe Volume	100µl
Maximum Flow Rate	50µl / sec
Minimum Step Volume	< 0.1µl
Syringe Material	Polypropylene
Plunger Material	Polyethylene H.D.
Reproducibility	Less than 1% error
Spreading Modes Stored	All the accepted
Autochecking	Programmed in regions
External Balance Connection	Serial RS232
Printer Connection	Serial RS232
Mains Power	230/100 V, 50/60Hz
Dimensions (WxHxD)	440 W 50 x 32 x 40 cm 19.7 x 12.6 x 16.1 in.
Weight	20 kg / 44 lb.

Notes: Specifications subject to change without notice

Bio Dilutor

Avoid the cross-contamination

When the Bio Dilutor takes the sample an air bubble is generated to prevent the mix between the sample and the solvent. Once the operation has been done the tip is rejected. The periodic cleaning is absolutely essential in microbiology laboratories. All the parts of the liquid circuit of BIO DILUTOR are autoclavable. Removal and reinstalling this liquid circuit takes only a few seconds.

Two interchangeable handgrips

The handgrip for tips allows the tip to be placed in its working position directly from the container. The handgrip for straws is long enough to take the samples from the Masticator homogenizing bags.

SPECIFICATIONS

Motor	Stepping. Angle 7.5°, 9W
Syringe Volume	10, 5, 2.5 or 1 ml autoclavable
Maximum Flow Speed	4 ml/s with 10 ml syringe
Minimum Volume Step	1/1000 of the total volume of syringe
Use of Disposable Tip	Programmed from the beginning of process
Air Bubble Volume	Programmable
Sample Volume	Programmable. Limited to the tip volume (1300µl)
Min. Sample Volume	1% of the syringe volume used. Warning message if it is less than 5%
Dilution Factor	Programmable from 1:1 to 1:1000
Reproductibility	Better than 1% even for dilutions using more than one single syringe stroke

CAT. NO.	DESCRIPTION	PRICE
IU1301-000	Basic Bio Dilutor with handgrip for tips, complete liquid circuit with bottle	\$5,550.00
IU1311-000	Advance Bio Dilutor with 10 ml syringe and box of 60 units of gamma-irradiated tips	\$6,365.00
Consumables		
IU1470-000	Box of 24 containers of 60 tips each irradiated with gamma rays	\$540.00
IU1322-000	Bag 1000 disposable tips not irradiated	\$160.00
IU1480-000	Bag of 10 stainless steel holders (60 tips)	\$210.00
IU1490-000	Box of 24 empty containers	\$220.00
IU1450-000	Box of 1000 irradiated straws	\$95.00



Printer Communication	Serial RS 232, programmable.
Mains Power	100/240 V, 50/60Hz
Dimensions (WxHxD)	40W 30 x 30 x 20 cm / 11.8 x 11.8 x 7.8 in.
Weight	6 kg / 13.2 lb
For Advanced only	
Balance Communication	Serial RS 232, programmable.
Gravimetric Dilution	By specific weight of solvent
Linked Programs	Up to 9

Note: Specifications subject to change without notice

Countermat Flash

All kinds of colonies, doesn't matter what kind of colonies you are counting, the instrument comes with a high definition colour camera which detects colonies of 1/170 in. approx. The Flash unit has a new and patented illumination device. The illumination of the plate is done through a reflection ring, which can be set at different positions in order to achieve the best illumination of the colonies from the background.

Connectivity and use of the information

Countermat Flash is an instrument to be used in conjunction with a Windows® 95/98/NT4.0/2000 personal computer like any other accessory. All the information generated by the Flash such as recount results or Petri dish images can be exported to any software like database, spread sheets or word processors. The PC hosting Countermat flash must comply with some minimum requirements to support both the Countermat software, and the Image Capture hardware and software.



SPECIFICATIONS

Illumination Lamp	35 W, halogen, with dichroic reflector.	Image Resolution	560 x 420 pixels.
Illumination Control	Incidence angle and light intensity adjustable.	Power Consumption	30 W Stand-by. 70W Light on.
Background Field	Black or white interchangeable.	Operating Temperature	5 to 40°C. / 40 to 105°F.
Imaging Device	CCD Video camera with fixed focus lens.	Operating Humidity	10 to 90%
Image Field	128 x 96 mm at the agar surface level.	Dimensions (WxHxD)	40 x 59 x 28 cm / 15.7 x 23.2 x 11.0 in
Minimum Colony Size	0.15 mm	Weight	13 kg / 28.6 lb
Image Capture	True color, 24 bits per pixel.		
Mains	100-127 VAC, 50/60Hz / 220-240 VAC, 50/60 HZ	Note: Specifications subject to change without notice	

CAT. NO.	DESCRIPTION	PRICE
IU4001-000	Countermat Flash, automatic colony counter for pour plates and any type of SPIRAL spreading. Complete instrument with centering holder for different Petri dishes size. Software to count colonies in any media included. With video capture PCB and cables, to be installed in an external PC (minimum Pentium100Mhz with Windows® 95,98 NT or 2000). The PC is not included. To run the instrument also monitor, keyboard, and mouse are needed.	\$10,850.00



Colony Counter

Perfect illumination system

The smooth illumination of the counting plate is generated by two different sources a backlight and a zenithal light, assuring the perfect illumination of any kind of colonies and media.

Non-contact measurement

The perfect way for measurement without contact. The diameter of inhibition zones in transparent media in Petri dishes is measured using a uniform light. Free of parallax error.

SPECIFICATIONS

Model	Manual Colony Counter	Mains	100/240 V, 50/60 Hz
Counter	4 digits, 9 mm LED-Display for up to 9999 count	Power	50W
Connections	Fibre marker with switch or fibre marker and metal pointer	Dimensions (WxDxH)	20 x 30 x 40 cm
Magnifying Glasses	Biconvex, 100 or 200 mm diam. 4 Diopters, Magnification DINx2	Weight	7.9 x 11.8 x 15.7 in 3 kg / 6.6 lb

CAT. NO.	DESCRIPTION	PRICE
IU1602-000	Colony counter with Fibre marker standard accessories and, magnifying glass No IU0672-000	\$1,070.00
IU1604-000	Colony counter with Fibre marker standard accessories and, magnifying glass No IU0671-000	\$1,275.00
IU1605-000	Colony counter with Fibre marker/metal pointer, standard marker/metal pointer, standard accessories and illuminated magnifying glass with-cogwheel adjustment No IU0670-000	\$1,950.00

Inoculating Turntable

Evenly distribute bacterial colonies from edge to center of Petri dished with ease.



Hand-operated turntable produces nearly concentric circles of evenly distributed bacterial colonies. This turntable will accommodate three different sizes of Petri dishes - 60, 90, 100 mm. Made of polyethylene, it has a recessed stabilizing pad made of nonskid neoprene.

- Lightweight yet sturdy
- Portable. Its size and weight make it effortless to move from one work station to another.
- Smooth, extended spin time provides a faster completion of inoculation
- Long service life

CAT. NO.	DESCRIPTION	PRICE
F40913-0000	5 in. (127 mm) Dia., 2 in. (50 mm) H	\$59.95
F40913-0001	Replacement Pad	\$12.00

Centrifugal Evaporator

A Better Choice for Drying Samples

The DyNA Vap™ is a compact, integrated system designed to meet the needs of the molecular biology laboratory. This centrifugal evaporation system rapidly and efficiently dries a large number of small samples while requiring a minimal amount of bench space.

Fully Integrated Design

The DyNA Vap is a fully integrated system, combining a centrifugal evaporator and vacuum pump in a single, self-contained unit. While the system includes both the vacuum pump and centrifuge, it is also extremely compact less than 13 in. wide.

High Capacity Rotor

A high capacity rotor that will accommodate two different tube sizes is supplied with the DyNA Vap. Designed to hold 24 x 1.5 ml tubes and 48 x 0.5 ml tubes simultaneously, this rotor eliminates the need for adapters or separate rotors. An additional rotor accommodating 48 x 1.5 ml tubes is also available.

FEATURES

- Rapid, Efficient Drying of DNA, RNA, Methanol / Water Mixtures, and Buffer Solutions.
- Fully Integrated Benchtop System
- High Capacity Rotor
- Seamless, Corrosion Resistant Chamber
- Maintenance Free, Teflon Membrane Vacuum Pump

SPECIFICATIONS

Speed	1800 rpm/400 x g
Rotor Capacity	24 x 1.5 ml, 48 x 0.5 ml
Temperature Range	30°C to 60°C
Temperature Setting	Continuously variable
Drive	Magnetically coupled motor/rotor
Pump Type	Oil free membrane pump with solid Teflon head

Seamless, Corrosion Resistant Chamber

The evaporation chamber of the DyNA Vap is constructed from a single piece of heavy gauge stainless steel. The chamber is corrosion resistant and will withstand most commonly used chemicals.

Maintenance Free, Teflon™ Membrane Pump

The built in membrane pump requires no oil and is virtually maintenance free. The pump head is made of solid Teflon, eliminating the cracking, peeling and corrosion associated with a Teflon coated head.

Pump Capacity	28 liters/minute
Lowest Vacuum	5 mbar
Dimensions (WxDxH)	325 x 585 x 355 mm
Weight	35 kg
Voltage	120V/60Hz

CAT. NO.	DESCRIPTION	PRICE
LAV-1000-0	DyNA Vap Centrifugal Evaporator, complete with rotor, evaporation chamber and pump	\$7,750.00
LAV-1001-0	Optional rotor, 48 x 1.5 ml tubes	\$995.00



Elisa Workstation

Automate microplate preparation and microplate reading with Hyperion's MicroReader 4 Plus & HyPrep Plus modular



moPrep™ 2 or ThermoPrep accessory, respectively. Like the MicroReader 4 Plus, HyPrep Plus also features open software and multiple test capability. Sample data may be automatically transferred from HyPrep Plus to the MicroReader 4 Plus, reducing setup time and the potential for errors.

Multitasking allows the MicroReader 4 Plus and HyPrep Plus to be operated simultaneously by a computer which uses Windows 95®, as its operating system. While HyPrep Plus prepares the microplate, the MicroReader 4 Plus may read another. Additionally, the computer may still be used for other tasks, while operating the workstation. The MicroReader 4 Plus and HyPrep Plus Workstation provides a modular concept for automating the entire microplate-based-assay process; from microplate preparation to fast and sophisticated read out of microplate results.

FEATURES

- Walk-away Automation
- Open Software, With Multiple Test Capability
- Similar Software Interface For Both Systems
- Automated Sample Data Transfer Between Systems
- Small Footprint
- Most Cost-Effective Modular ELISA Workstation Available Today

Call for price

See MicroReader 4 Plus on page 88 and HyPrep Plus on page 87

HyPrep™ Plus

Walkaway preparation of IFA assays, from start to finish

HyPrep™ Plus, more than just a sample handling system, rather a walkaway assay-preparation system because it prepares the entire assay!

HyPrep™ Plus is the first and only system worldwide that

- Predilutes the samples
- Performs serial dilution, if required
- Transfers samples to the microwell slide
- Incubates the samples
- Washes the slide
- Adds conjugate
- Adds mounting media

An open software package, PLUS MULTITEST™, allows for different brands of IFA kits, of your choice, to be processed automatically by HyPrep™ Plus.

Ask for detailed brochure

« Dilute samples • Incubate at 37°C for (30) minutes • Wash plate • Add substrate
 • Incubate at 37°C for (15) minutes • Wash plate • Add stop solution • Done »

FEATURES

- Processing of all IFA steps, including washing
- Processing of serial dilutions
- Automated management of diverse work loads (features multiple test capability, with random sample access)
- Processes different IFA slide formats
- Bar code compatibility

CAT. NO.	DESCRIPTION	PRICE
HY4052-054P	HyPrep™ Plus	\$25,600.00



Chemistry Analyzer

STATFAX® 1904 PLUS CHEMISTRY ANALYSER SPECIFICATIONS

Photometric

Linear Measurement Range	-0.20 to 2.50 Absorbance Units (A)
Photometric Accuracy	±(1% of the reading +0.005 A)
Stability	Drift of no more than 0.005A in 8 hours /bichromatic
Light Source	Tungsten halogen lamp, with lampsaver feature
Standard Wavelengths	340, 405, 450, 505, 545, 600nm (alternate filters from 340 to 700nm can be custom ordered)
Type of Filter	Multiple cavity hard coat interference, 10nm half bandpass
Tube Size	Std. is 12 mm round
Minimum Fill Volume	1ml for 12 mm tube, 250µl with Mosquito accessory

Electronic

Display	Alpha numeric, 16 character LCD
Printer	Thermal, dot matrix, 20 characters per line, plus graphics
Keyboard	16-key, domed membrane switch, enunciating
Power Requirements	115 V or 230V AC, 50-60 Hz (switch selectable)
Microprocessor	Z80A or Z180

Software

Speed	Reads, calculates and prints results in 3 seconds/tube
Calculation Modes	Single point calibration by standard or factor, uptake, multipoint calibration with point to point curve fit, rate by standard or factor (batch or singly)
Test Menu	More than 50 open channels to store tests. Stores all parameters including wavelengths, calculations, unit codes, linear and normal ranges, rate timing, standard values, test names, and previous standard curve

Other

Temperature	37°C, block stays on, cell has on/off switch
Enclosure	Painted flame retardant ABS plastic cover with metal base
Dimensions	Approx. 9 x 12 x 3 in. (23 x 30 x 8 cm), 15 lbs, (6.8 kg)
Certifications	CE Mark



CAT. NO.	DESCRIPTION	PRICE
AW1904PLUS	StatFax® 1904 Plus Chemistry Analyzer with 6 filter calculating photometer for endpoint and kinetic assays, includes graphics printer, 37°C incubation, and non-volatile memory for test protocol storage	\$3,795.00

FEATURES

- Bichromatic optical system with six wavelengths including 340nm
- Pre-programmed calculations for both kinetic and endpoint assays
- Twelve-station 37°C incubation block and temp. controlled read cell
- Easy to use with step-by-step prompting and built-in thermal printer with graphics capability
- Large non-volatile memory to store more than 50 curves and test parameters

OPTIONS & ACCESSORIES

- 1904 CASE- durable carrying case
- Redi-Check® to monitor accuracy, linearity, and repeatability of Stat Fax® Chemistry Analyzers
- Stat TrackSM PC software for data management and reporting

MOSQUITO® ASPIRATION FLOW CELL

- Powered from the StatFax® Chemistry Analyzer
- Keyboard selectable read volume from 250µl to 500µl
- Software controlled with user prompts
- Internal, extra-quiet, vacuum pump
- All cables and connectors are included

MOSQUITO® ASPIRATION FLOW CELL SPECIFICATIONS

Cell	
Minimum Aspiration Volume	250µl at 7 in. of vacuum
Other Volume Options	300, 350, 400, 450, and 500µl
Illuminated Volume	331µl
Equivalent Pathlength	1 cm path
Cell Body	316 Stainless
Windows	1 mm Pyrex®

Control Module

Power Input	12V DC/.7A from analyzer
Valve	Silicone pinch type
Vacuum Sensor	Piezoresistive bridge type
Vacuum Regulation	Better than 0.25 in. of Hg
Vacuum Pump	12V DC/0.7, 1 liter/min
Full Sensor	Stainless - conductivity probe



StatFax® 3200 Microplate Reader

FEATURES

- Fully automatic
- Bichromatic optics
- On board data reduction calculations include regressions, curve fitting and cutoff absorbance calculations with step-by-step user prompting
- Large, non-volatile memory stores over 100 user entered tests
- Includes parallel and serial outputs. (serial cable included)
- Graphic LCD screen
- Operates with H.P., Canon & Epson compatible external printers or optional internal printer

SPECIFICATIONS

Photometric

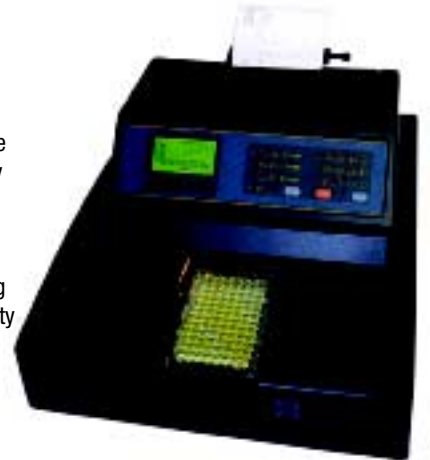
Linear Measurement Range	-0.20 to 3.0 Absorbance units (A)
Photometric Accuracy	±1% or better
Stability	Drift of no more than 0.005A in 8 hours
Light Source	Tungsten lamp with lamp saver feature
Wavelengths	
Standard	405, 450, 492, and 630nm
6-VIS	405, 450, 492, 545, 600, and 630nm
6-UV	340, 405, 450, 492, 545, and 630nm
Filter Type	Multiple cavity hard coat interference, 10nm half bandpass
Vessel	Standard 96-well microtiter plates, or strip trays

Electronic

Display	128x64 pixel, graphic LCD display
Internal Printer Option	Thermal printer with 80 character per line capability using 80 mm wide thermal paper
External Printer Requirements	Parallel or serial, 80 Column, 2K byte minimum buffer capacity, Epson® compatible
Keyboard	29-key, domed membrane switch, enunciating; plus 4 multi-purpose keys for display input
Power Requirements	115V or 230V AC, 50-60Hz (switch selectable)
Serial Port	9600 Baud, 1 start bit, 8 data, 1 stop, no parity

OPTIONS & ACCESSORIES

- Four and six filter models available
- Optional 340nm reading capability
- Computer interface for IBM®
- Serial or parallel printers
- On-board printer
- Dri-Dye® Check Strips for verifying accuracy, linearity, and repeatability
- Durable carrying case



Microprocessor	Z180
Non-Volatile Memory	Battery supported RAM, holds more than 100 tests and curves
Certifications	NRTL Listed, CE Mark
Software	
Speed	Reads, and prints absorbances of 96 wells in about two minutes
Calculation Modes	Single point calibration, uptake mode, point-to-point curve fit, polynomial regression, linear regression (log & linear), cutoff absorbance, multipoint % absorbance
Additional Features	Complete user prompting, flags and error messages, partial plate reading, alphanumeric test naming, automatic interpretation options, duplicate options, clock and calendar, controls locator, self check system, curve plotting and editing
Other	
Mixer	Variable time, fixed speed
Enclosure	Fire-retardant ABS plastic cover with metal base
Dimensions	approx. 17 x 14.5 x 7 in. (43 x 37 x 18 cm)
Weight	30 lbs. (13.7 kg)

CAT. NO.	DESCRIPTION	PRICE
AW3200-000	StatFax 3200 Microplate Reader	\$6,700.00
AW3200-001	Optional 6 filters (6VIS)	\$275.00
AW3200-002	Optional 6 filters (6UV)	\$425.00
AW3200-003	Optional on-board printer	\$425.00

MicroReader 4 Plus

Optimized for accurate and reliable photometric measurement of microplate-based assays (with or without shaking before reading) and operation by a peripheral computer, the MicroReader 4 Plus offers you the best value today.

FEATURES

- The MicroReader 4 Plus offers an open system for customizing to individual protocols.
- The MicroReader 4 Plus offers an intuitive user-interface, windows-like, which facilitates programming of even the most complex ELISA/EIA applications.
- The MicroReader 4 Plus offers six installed filters and a built-in microplate shaker which further enhance its application flexibility as more types of assays may be used with the system.
- The MicroReader 4 Plus accommodates the full range of work load demands, including batch and profile analysis, and exceptionally fast measurement of the microplate, which boost productivity.
- The MicroReader 4 Plus offers self-calibrating capabilities which ensure accurate and reliable measurement each and every time it is used.
- The MicroReader 4 Plus offers computer control, using a PC computer (including Lap Tops), for optimal flexibility and versatile handling of sample results.
- The MicroReader 4 Plus offers the option to create a Modular ELISA Workstation that prepares the microplate and provides read out of microplate results.
- The MicroReader 4 Plus offers a modular design which greatly simplifies maintenance.
- Significant capabilities which allow the MicroReader 4 Plus to improve the efficiency of any laboratory.

CAT. NO.	DESCRIPTION	PRICE
HY4028-052	MicroReader 4 Plus	\$8,070.00



StatFax® 2100 Microplate Reader

FEATURES

- Fully automatic.
- Bichromatic optics. Standard model includes four filters, six filters are available for a nominal charge.
- On board data reduction calculations include regressions, curve fitting and cutoff absorbance calculations with step-by-step user prompting.
- Large, non-volatile memory stores at least 50 user tests.
- Includes parallel and serial outputs.
- Operates with or without a computer. A bi-directional accessory is available for linking to IBM compatible computer.

SPECIFICATIONS

Photometric

Linear Measurement Range	-0.20 to 3.0 Absorbance units (A)
Photometric Accuracy	±1% or better
Stability	Drift of no more than 0.005A in 8 hours
Light Source	Tungsten lamp with lamp saver feature
Wavelengths	
Standard	405, 450, 492, and 630nm
6-VIS	405, 450, 492, 545, 600, and 630nm
6-UV	340, 405, 450, 492, 545, and 630nm
Filter Type	Multiple cavity hard coat interference, 10nm half bandpass
Vessel	Standard 96-well microtiter plates, or strip trays

Electronic

Display	Two line LCD, alpha numeric, 24 characters per line
Printer Requirements	Parallel or serial, 80 Column, 2K byte minimum buffer capacity, EPSON compatible
Keyboard	29-key, domed membrane switch, enunciating
Power Requirements	115V or 230V AC, 50-60Hz (switch selectable)
Serial Port	2400 Baud, 1 start bit, 8 data, 1 stop, no parity
Microprocessor	Z80A or Z180
Non-volatile Memory	Battery supported RAM, holds approx. 50 tests and curves

OPTIONS & ACCESSORIES

- Four and six filter models available
- Optional 340nm reading capability
- Computer interface for IBM
- Serial or parallel printers
- Dri-Dye® Check Strips for verifying accuracy, linearity, and repeatability
- Durable carrying case



Certifications

NRTL Listed, CE Mark

Software

Speed

Reads, and prints absorbances of 96 wells in about 2 min.

Calculation Modes

Single point calibration, uptake mode, point-to-point curve fit, polynomial regression, linear regression (log & linear), cutoff absorbance, multipoint % absorbance

Additional Features

Complete user prompting, flags and error messages, partial plate reading, alphanumeric test naming, automatic interpretation options, duplicate options, clock and calendar, controls locator, self check system, curve plotting and editing.

Other

Mixer

Variable time, fixed speed

Enclosure

Fire-retardant ABS plastic cover with metal base

Dimensions

Approx. 17 x 14.5 x 7 in. (43 x 37 x 18 cm)

Weights

30 lbs. (13.7kg)

CAT. NO.

DESCRIPTION

PRICE

AW2100-000	StatFax Microplate Reader	\$5,430.00
AW2100-001	Optional 6 filters all visible wavelengths (6 VIS)	\$275.00
AW2100-002	Optional 6 filters with a 340nm filter (6UV)	\$425.00

MicroReader™ 1

High-precision, single-channel photometers: read a well or test tube at the touch of a button!

Easy-to-Operate

- Two-Button operation for determining absorbance or concentration.
- Fully menu-driven: A dialogue of straightforward prompts guide the user through the operational process. Prompts easily read on the 16-character, alphanumeric display
- Built-in error codes for easy diagnosis and correction of faulty operating conditions,
- Positive strip-indexing provides the user with tactile feedback, signifying the well is properly positioned in the read path and is ready for analysis,
- Readability of the display may be enhanced to meet individual preferences by adjusting the LCD contrast.

Accurate Documentation

- A compact printer is available for connection to the MicroReader 1 for convenient and accurate documentation of sample results; available in 115 Volt or 220 Volt electrical configuration.

CAT. NO.	DESCRIPTION	PRICE
HY4025-056	MicroReader Single Strip	\$1,575.00
HY4025-059	MicroReader Double Strip	\$1,640.00

TYPICAL APPLICATIONS

- ELISA/EIA Assays
- Autoimmune Disease Assays
- Allergenic Assays
- Infectious-Disease Assays
- Hormone Assays
- Drugs of Abuse Assays
- Other Immunochemistry Assays
- Food Testing Assays
- Veterinary Applications



SPECIFICATIONS

Microwell Strip	8-or-12-Well Microwell Strips (1 x 8.1 x 12.2 x 8.2 x 12)
MicroReader™ 1	Model 4025-056 - Single Strip; Model 4025-059 - Double Strip
Tube Diameter	12 mm to 16 mm (Available by special order)
Absorbance Range	0-2.000 Abs. (Optical Density)
Accuracy	±2% or .01 Abs., Whichever is greater
Precision	±1.5% or .005 Abs., Whichever is greater
Resolution	.001 Abs
Wavelength	400nm to 700nm, interchangeable (Choice of 1-standard filter included from following list: 405nm, 450nm, 490nm, 540nm, 630nm and 650nm.) Other wavelengths are available by special order.

Microplate Washer/Filler



The Millennium 1000 is the new unique processor for the fully automated washing and filling of both 96 and 384 well microplates, in all possible profiles. It is designed to achieve fast and reliable microplate processing with high precision and repeatability, whilst allowing the user a multitude of individual adjustment possibilities.

SPECIFICATIONS

Operating Voltage/Hz	100-240Vac 50/60Hz
Max Current Requirement	52VA
Dispense Reservoir	Up to 3x2 litres
Waste Reservoir	2 litres
Residual Volume	3µl per well typical action, 1µl per well with sweep
Precision	CV ≤/- 3%@300µl
Dispensing Volume	25 -1000µl in 25µl increments
Speed	2.5 mins.*
Weight of Complete System	9.2 kg
Dimensions (WxDxH)	350 x 650 x 350 mm

* to complete a 3 wash cycle using a 12 channel washer, double head, 350µl per well, 96 wells.

FEATURES

- Filter bottomed & deep well plates can be accommodated through reconfiguration
- Easy exchange of wash heads
- Heads available in 8, 12, 16, 24 and 48 concentric tip configurations
- Easy to read back illuminated full alpha numeric display
- The Millennium 1000 operates on 12V DC, supplied via an external switch mode power supply, thus enhancing operational safety
- Separate dispense end aspirate channels reduce the possibility of cross contamination
- Unique open construction for easy integration with robotic systems
- Up to 25 user programmable wash protocols

CAT. NO.	DESCRIPTION	PRICE
JE700-1860	8-channel washer (96 well plates)	\$8,580.00
JE700-1870	12-channel washer (96 well plates)	\$9,190.00
JE700-1880	16-channel washer (96 well plates)	\$9,795.00
JE700-1890	24-channel washer (96 well plates)	\$10,400.00
JE700-1900	48-channel washer (384 well plates)	\$12,850.00
JE700-1910	Aerosol cover	\$1,285.00

StatFax® 2600 Microplate Washer

SPECIFICATIONS

Fluid Performance (with 8 probe head)

Residual Volume	<3µl
Dispense Accuracy	<3% CV at 300µl
Processing time (full plate)	55 seconds aspirate/ dispense with single or double aspirate
Liquid Contact Materials	Stainless steel, Delrin, silicone, Nylon, PVC, polypropylene, HDPE

Electronic

Display	Two line LCD, alpha numeric, 24 characters per line
Keyboard	16-key, domed membrane switch, 4 x 4, enunciating
Power Requirements	115V or 230V AC, 50-60Hz (switch selectable)
Microprocessor	Z80A or Z180

SoftWare

Washing Programs	Aspirate, dispense, soak - up to 99 minutes 99 secs
Special Menu Options	Auto alignment - senses physical geometry of the head, plate, and carrier mechanism, standby - disables pumps and releases vacuum and pressure, selfcheck - performs internal performance tests and auto alignment, auxiliary - allows selection of pre-programmed tests, mechanism and volume calibration, alphanumeric test naming; constant plate cycle time; optional manual plate depth selection

Other

Bottles	Wash and waste 2L, rinse 1L, plastic with volume sensor probes
Enclosure	Fire retardant ABS plastic cover with metal base
Dimensions	Approx. 15.5 x 13.5 x 7.5 in. (39 x 34 x 19 cm.)
Weight	22 lbs. (10 kg)
Certifications:	NRTL Listed, CE Mark
Non-Volatile Memory	Battery supported RAM, holds approx. 50 wash protocols



FEATURES

- Washes flat, round, and v-bottom plates and strips
- No user adjustments required, automatic calibration, alignment, and last row detection
- Large, non-volatile memory for up to 50 user entered wash protocols; Six factory programmed wash/rinse modes.
- Programmable, automatic rinse cycle
- Precision operation with constant monitoring of vacuum and pressure. Internal pumps cycle on only when needed for extra quiet operation.
- Ready to run; 3 bottles, aerosol shield, and 8-probe manifold included

OPTIONS & ACCESSORIES

- 12-probe and 16-probe manifolds
- Extra wash, rinse, and waste bottles
- Bottle rack
- Durable padded carrying case with castors and reinforced comers

CAT. NO.	DESCRIPTION	PRICE
AW2600-000	StatFax 2600 Microplate Washer	\$4,895.00

Stat Wash™ Microwell Washer



Stat Wash™ is designed to wash immunoassays with professional precision at an economical cost. Some hand held washers only dispense and may use cumbersome gravity flow systems, not Stat Wash™. It incorporates a high quality pump for push-button controlled dispensing and aspiration, thus reducing the risk of exposure to splashing biohazards. Don't use those messy squirt bottles; power up with Stat Wash™.

FEATURES

- Fast, Clean, Precise
- 8 Probe Manifold
- Push button controlled, pulse dispense
- 1L wash bottle, 1L waste bottle with full level sensor and alarm
- Adjustable dispense volume
- Compact, easy to use and maintain
- Pump creates vacuum & pressure - not reliant on gravity or siphon action

CAT. NO.	DESCRIPTION	PRICE
AW3100-000	3100 Stat Wash™ hand held economical washer, adjustable dispense volume, push button controls	\$1,450.00



Masticator

The principle of the system

The two paddles gently, but thoroughly homogenize the sample with the diluent. The diluent penetrates inside the sample tissues and is pushed out again, creating a perfect solution for further analysis.

Disposable sterile bags

The sample is contained in an individual sterile polyethylene bag and does not come in contact with the instrument; so there is no potential for cross-contamination. Handling of the sample is minimized.

SPECIFICATIONS

	Silver	Classic/Basic
Motor	Induction type	Induction type
Motor speed	500-1500 rpm	1500 rpm
Reduction	1:6	1:6
Strokes/sec	5/6/7/8	8.5 (50 Hz), 10 (60 Hz)
Setting	Keyboard/display	Analogic timer
Timer	5/30/60/90/120 150/180/210/240 sec	15-90 sec
Start / Stop	Door activated	Door activated
Security	Double on door	Double on door
Mains	110 V, 60 Hz 230 V, 50 Hz	110 V, 60 Hz 230 V, 50 Hz
Power	270 W	270 W
Dimensions	24 x 30 x 40 cm	24 x 26 x 40 cm
(WxHxD)	9.4 x 11.8 x 15.7 in.	9.4 x 10.2 x 15.7 in.
Weight	20 Kg / 44 lb.	17 Kg / 37.5 lb.
Specifications subject to change without notice		

CAT. NO.	MODEL	VOLUME	PRICE
IU471-0000	Basic	400 ml	\$2,350.00
IU477-0000	Basic Panoramic	400 ml	\$2,575.00
IU0481-000	Classic	80 ml	\$2,750.00
IU0401-000	Classic	400 ml	\$2,750.00
IU0462-000	Silver	80 ml	\$3,625.00
IU0461-000	Silver	400 ml	\$3,625.00
IU0581-000	Classic Panoramic	80 ml	\$3,175.00
IU0501-000	Classic Panoramic	400 ml	\$3,175.00
IU0597-000	Silver Panoramic	80 ml	\$3,960.00
IU0522-000	Silver Panoramic	400 ml	\$3,960.00

Request the voltage and frequency needed
All the instruments carry a 3-year warranty on the mechanical parts.
All systems come with 50 polyethylene bags, user's guide, and power cable.

Electronic Ice Cube™

Peltier driven unit has no controls and the 73 x 111 mm (2 7/8 x 4 3/8 in.) chilled plate surface will go to 0°C in approx. 2 minutes. The maximum differential from ambient is approx. -30°C. Freezes 96 well assay plates; freezes or chills various sizes of microcentrifuge tubes in aluminum blocks designed to hold them; and chills or freezes any small sample in the lab or in the field. Ideal for use with robotic arms. Compact unit is supplied complete with chiller module, a separate 12 VDC bench top UL, CSA, and CE rated power supply with AC line cord, and a cable connecting power supply to chiller module. This cable has an automobile cigarette plug on one end that may be removed from the power supply and connected to a 12 VDC car cigarette lighter jack for powering the chiller module in the field. Chiller module dimensions (LxDxH): 165 x 120 x 89 mm (6½ x 4¾ x 3½ in.).



Temperatures to -10°C at plate surface

- Freezes 96 well assay plates, centrifuge tubes, etc.
- For field or lab use.

CAT. NO.	DESCRIPTION	PRICE
TOIC10-000	Chiller Module, Universal 12 VDC Power Supply, and Interconnect Cable, 100,115, and 230 VAC, 50/60 Hz	\$725.00
T0720-0008	Cover for 96 Well Assay Plates	\$70.00
T0720-0009	Cover for Aluminum Blocks	\$95.00
T0620-5011	Block, Aluminum, 50 x 0.2 ml Tubes	\$240.00
T0620-5012	Block, Aluminum, 40 x 0.5 ml Tubes	\$225.00
T0620-5013	Block, Aluminum, 30 x 1.5 ml Tubes	\$240.00