BIOLABS AT THE LUNDQUIST

EQUIPMENT INFO

UPDATED OCTOBER 18, 2019 //
PREPARED BY JESSICA GRONDIN (LABORATORY MANAGER)

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PCR

EPPENDORF

MASTERCYCLER X50

MAX TEMP
99 ˚C

HEATING RATE
10 ˚C/s

COOLING RATE
5 ˚C/s

WELL CAPACITY
0.2 mL

MAX PLATE SIZES
96 Well

INTERFACES
Ethernet
USB

TECHNE

PRIME GRADIENT

MAX TEMP
100 ˚C

HEATING RATE
3.4 ˚C/s

COOLING RATE
5 ˚C/s

WELL CAPACITY
0.2 mL

MAX PLATE SIZES
96 Well or 384 Well

INTERFACES
USB

APPLIED BIOSYSTEMS

PROFLEX

MAX TEMP
100 ˚C

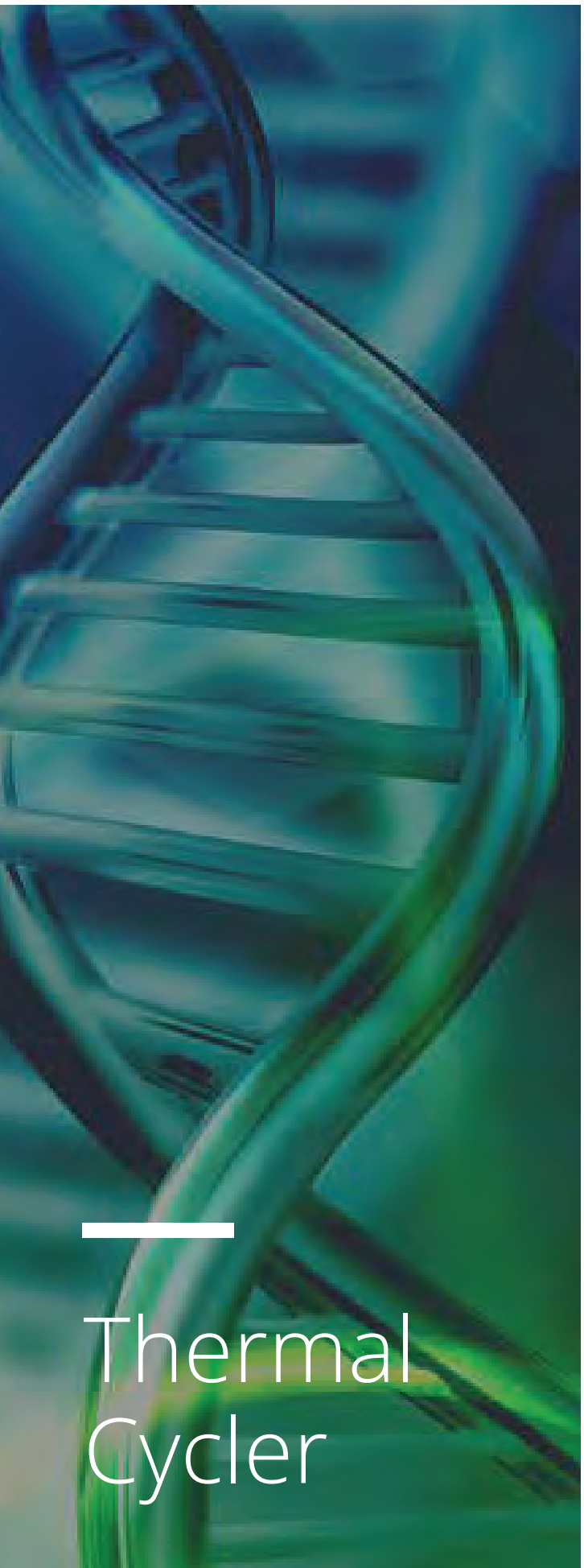
HEATING RATE
4.4 ˚C/s

COOLING RATE
5 ˚C/s

WELL CAPACITY
0.2 mL

MAX PLATE SIZES
96 Well or 3 x 32

INTERFACES
USB
On-Board



Thermal Cycler

EPPENDORF *MASTERCYCLER® X50*

The new Mastercycler X50 is the elegant synthesis of speed, flexibility and PCR optimization for research PCR applications and standardization for routine PCR applications such as food testing etc. A new highly intuitive touch screen concept puts all of those benefits always at your fingertips.

Unique Features

- CAN CONTROL UP TO 9 OTHER UNITS
- INNOVATIVE 2D-GRADIENT
- AUTOMATIC HEIGHT ADJUSTMENT OF THE LID

Applications

- FAST PCR
- PCR OPTIMIZATION
- STANDARD PCR
- INCUBATION
- CYCLE SEQUENCING

Specifications

- TOUCHSCREEN
- BLOCK TEMP RANGE: 4 – 99 °C
- 10 °C/S HEATING RATE
- LID HEATING RANGE: 37 – 110 °C
- 96 × 0.2 ML PCR VESSELS

TECHNE
Prime Gradient Thermal Cycler

These high-performance thermal cyclers provide robust and reliable operation that is user friendly and easy on the pocketbook. Intuitive programming feature allows you to easily set up to 1000 programs (unlimited with USB) with password protection to minimize inadvertent changes in settings. Use the color touch screen to create even the most complex programs.

Unique Features

- MEMORY : 1000, OR UNLIMITED VIA USB
- ADJUSTABLE TEMPERATURE TO PREVENT CONDENSATION

Applications

- FAST PCR
- PCR OPTIMIZATION
- STANDARD PCR
- INCUBATION
- CYCLE SEQUENCING

Specifications

- MAX TEMPERATURE (° F) 212
- MIN TEMPERATURE (° F) 39.2
- TEMPERATURE ACCURACY ±0.2°C AT 50°C
- RAMP RATE UP TO 3.4°C/SEC
- MAX HEATING RATE UP TO 3.4°C/SEC
- HEATED LID TEMPERATURE 100 TO 115°C

PCR

APPLIED BIOSYSTEMS *ProFlex 96*

The Applied Biosystems ProFlex PCR System combines the reliability and performance you've come to expect from Applied Biosystems thermal cyclers with the flexible configuration and control features that fit how you work today. Interchangeable block formats allow you to maximize your throughput or run independent experiments concurrently.

Unique Features

- 96-WELL BLOCK
- VERIFLEX™ BLOCKS
- CLOUD ENABLED
- INTERCHANGEABLE BLOCKS
- MOBILE APP CONNECTIVITY

Applications

- PCR
- REVERSE TRANSCRIPTASE

Specifications

- BLOCK FORMAT: INTERCHANGEABLE
- CAPACITY: 96 WELL X 0.2 ML TUBES
- DISPLAY INTERFACE: TOUCHSCREEN
- FORMAT: 0.2 ML TUBES, 12-STRIP WELLS
- INSTRUMENT MEMORY: USB AND ON-BOARD
- PEAK BLOCK RAMP RATE: 6.0°C/SEC
- POWER REQUIREMENTS: 100-240V, 50-60 HZ

PCR

APPLIED BIOSYSTEMS *ProFlex 3 x 32*

The Applied Biosystems ProFlex PCR System combines the reliability and performance you've come to expect from Applied Biosystems thermal cyclers with the flexible configuration and control features that fit how you work today. Interchangeable block formats allow you to maximize your throughput or run independent experiments concurrently.

Unique Features

- 3 X 32-WELL BLOCK FOR RUNNING UP TO THREE EXPERIMENT
- VERIFLEX™ BLOCKS
- CLOUD ENABLED
- INTERCHANGEABLE BLOCKS
- MOBILE APP CONNECTIVITY

Applications

- PCR
- REVERSE TRANSCRIPTASE

Specifications

- BLOCK FORMAT: INTERCHANGEABLE
- CAPACITY: 3 X 32-WELL X 0.2 ML TUBES
- DISPLAY INTERFACE: TOUCHSCREEN
- FORMAT: 0.2 ML TUBES, 12-STRIP WELLS
- INSTRUMENT MEMORY: USB AND ON-BOARD
- PEAK BLOCK RAMP RATE: 6.0°C/SEC
- POWER REQUIREMENTS: 100-240V, 50-60 HZ

BALANCES

OHAUS

HARVARD TRIP BALANCE

CAPACITY
2000 g

READABILITY
0.1 g

PAN SIZE
155 mm

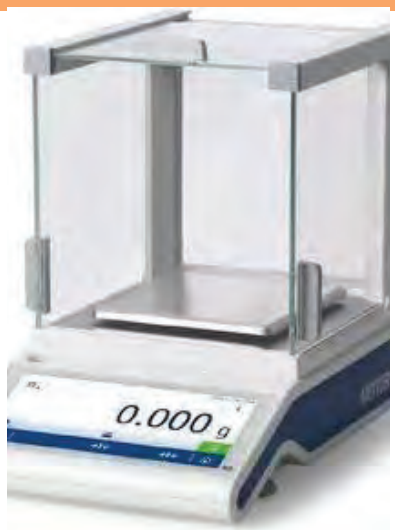
VWR

P-SERIES PRECISION

CAPACITY
120 g

READABILITY
1 mg

PAN SIZE
-



METTLER TOLEDO

MS-TS ANALYTICAL

CAPACITY
320 g

READABILITY
0.1 mg

PAN SIZE
204 mm

METTLER TOLEDO

PRECISON MS-TS NEW CLASSIC SG

CAPACITY
1020 g

READABILITY
1 mg

PAN SIZE
127 mm

Mechanical Balance

OHAUS *Harvard Trip Balance*

Ideal for comparative weighing. OHAUS Harvard Trip Balances with choice of single or double beam models provide many years of maintenance-free, comparative weighing using a known standard.ds

Unique Features

- WITH 2000G CAPACITIES, 0.1G READABILITIES
- STAINLESS STEEL
- EQUIPPED FOR SPECIFIC GRAVITY WEIGHING

Applications

- COMPARATIVE WEIGHING

Specifications

- CAPACITY: 4.4 LB., 2 KG
- DEPTH (ENGLISH) PAN: 5.9 IN.
- DEPTH (METRIC) PAN: 15CM
- DIAMETER (METRIC) OUTER PAN: 15.2CM
- HEIGHT (METRIC): 24.1CM

VWR
P-Series Precision Balance

Portable balances offer simple operation and multiple weigh modes. All units feature a stainless steel weigh pan. They are rugged and built to last.

Unique Features

- PORTABLE DESIGN
- STAINLESS STEEL WEIGH PAN
- RUGGED CONSTRUCTION

Applications

- COMPARATIVE WEIGHING

Specifications

- OPERATING TEMPERATURE RANGE 0 – 40°C
- CAPACITY: 120 G
- READABILITY: 0.001 G
- REPEATABILITY: 0.001 G

METTLER TOLEDO *MS-TS Analytical Balance*

Ideal for comparative weighing. OHAUS Harvard Trip Balances with choice of single or double beam models provide many years of maintenance-free, comparative weighing using a known standard.ds

Unique Features

- GUIDED BALANCE LEVELING
- GET CONNECTED FOR EASY DATA MANAGEMENT
- HIGH-PERFORMANCE WEIGHING CELL

Applications

- WEIGHING
- BACK-WEIGHING
- DIFFERENTIAL WEIGHING
- FORMULATION; DENSITY
- COUNTING

Specifications

- MAXIMUM CAPACITY 120 G
- READABILITY 0.1 MG
- REPEATABILITY (TEST WEIGHT) 0.1 MG (100 G)
- MINIMUM WEIGHT (USP, 0.1%, TYPICAL) 0.16 G
- WEIGHING PAN DIAMETER 90 MM
- DISPLAY 7" COLOR TOUCHSCREEN
- SETTLING TIME 2 S
- REPEATABILITY (TYPICAL) 0.08 MG
- INTERFACES ; USB HOST; USB DEVICE; RS232;

METTLER TOLEDO
Precision MS-TS New Classic SG

Advanced Level Precision Balance: 1020 g capacity, 1 mg readability, 7" touchscreen, full metal body, high-performance weighing cell, FACT, 11 easy-to-use applications, advanced connectivity and data management, user management, easy to clean

Unique Features

- EASY TO USE
- PERFORMANCE YOU CAN TRUST
- RELIABILITY

Applications

- WEIGHING
- BACK-WEIGHING
- DIFFERENTIAL WEIGHING
- CHECK WEIGHING
- TOTALING
- FORMULATION
- DENSITY
- DYNAMIC WEIGHING
- PERCENT WEIGHING
- COUNTING
- FACTOR WEIGHING

Specifications

- MAXIMUM CAPACITY 1,020 G
- READABILITY 1 MG
- REPEATABILITY (TYPICAL) 0.7 MG
- MINIMUM WEIGHT (U=1%, K=2), TYPICAL 0.14 G
- SETTLING TIME 2 S
- REPEATABILITY 0.001 G
- WEIGHING PAN DIMENSIONS (WIDTH) 127.0 MM
- WEIGHING PAN DIMENSIONS (DEPTH) 127.0 MM
- MINIMUM WEIGHT (USP, 0.1%, TYPICAL) 1.4 G
- LINEARITY ± 0.002 G

MIXERS

EPPENDORF

THERMO MIXER C

MAX SPEED
3,000 RPM

TEMPERATURE
15 to 100

TIMER RANGE
15 sec to 99:99 hours OR Continuous

THERMO SCIENTIFIC

LP VORTEX MIXER

MAX SPEED
3,000 RPM

TEMPERATURE
-

TIMER RANGE
Continuous

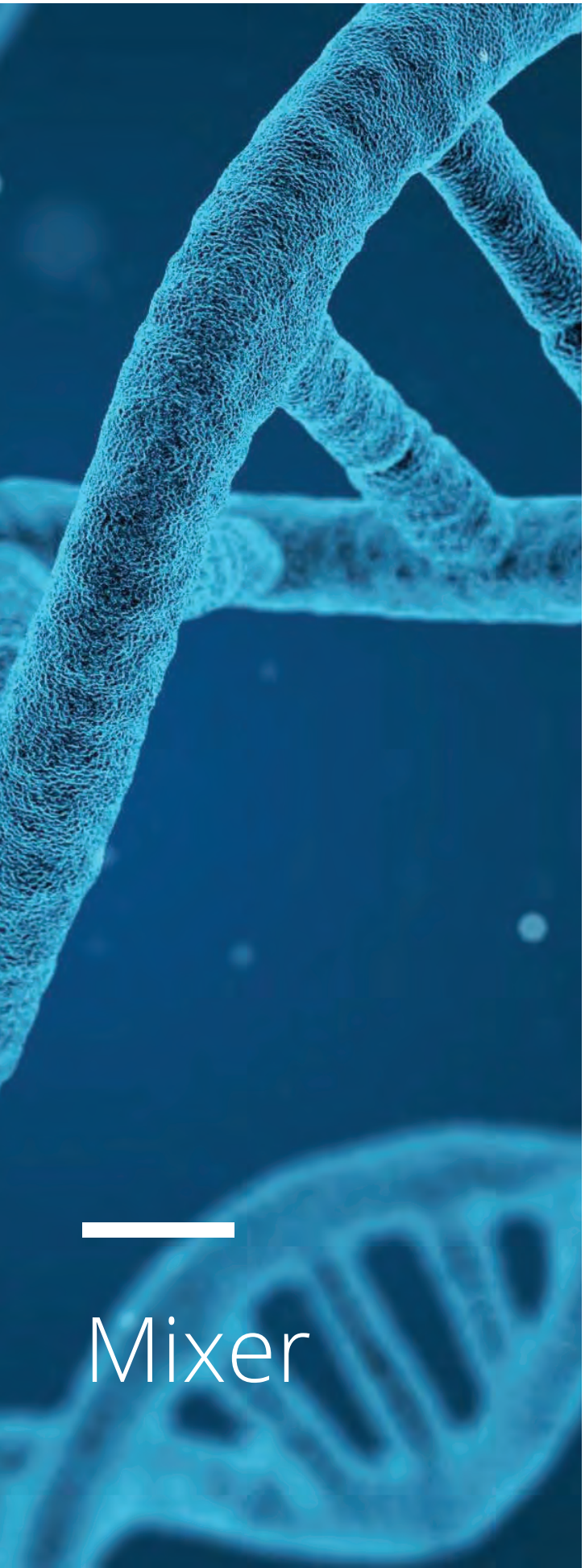
THERMO SCIENTIFIC

THERMAL MIXER 24 X 2ML

MAX SPEED
1,400 RPM

TEMPERATURE
4 to 100

TIMER RANGE
1 min to 96 hours



Mixer

EPPENDORF *ThermoMixer C*

Improve your assay results by dry incubation and mixing of your samples simultaneously: The Eppendorf ThermoMixer C is for heating, cooling, and mixing almost any of your lab vessels. Reliable prevention of condensate formation in small vessels can be achieved with the heated lid Eppendorf ThermoTop

Unique Features

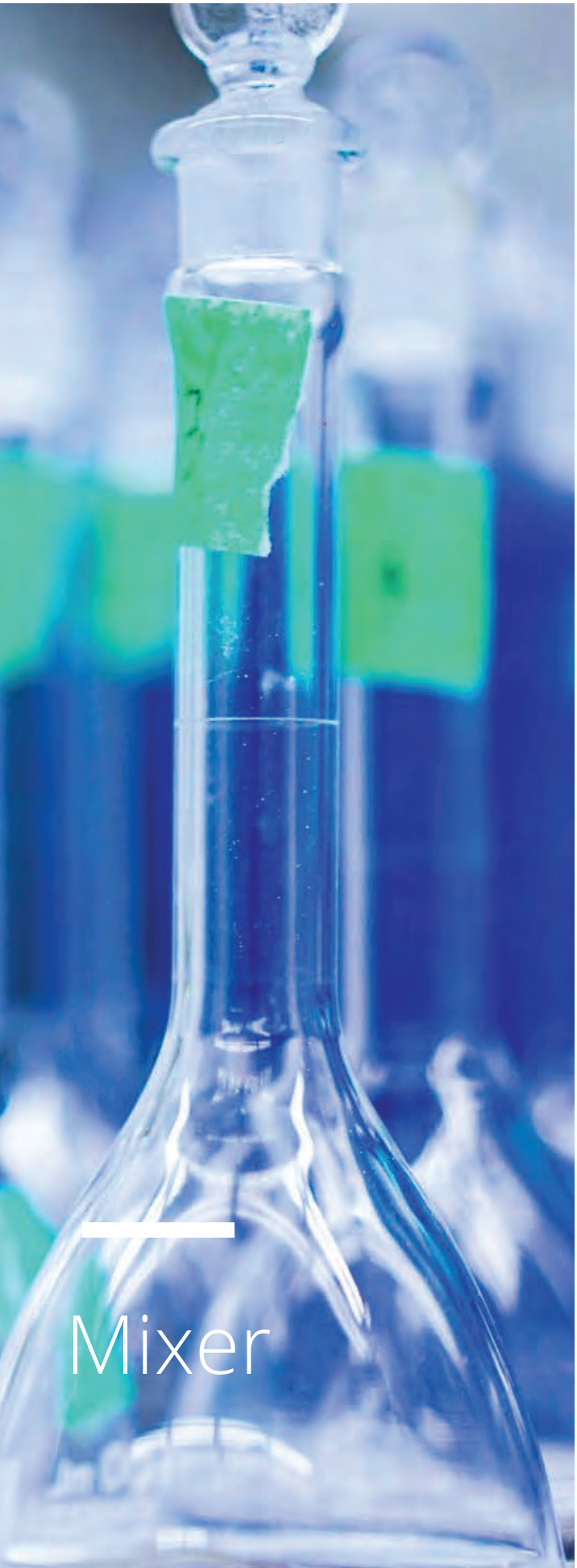
- MIXING, HEATING, AND COOLING
- ANTI-SPILL TECHNOLOGY
- MIXES LIQUIDS IN A CIRCULAR MOVEMENT
- PREVENTS CONDENSATION WITHIN THE TUBE LID

Applications

- PLASMID/RNA/DNA PURIFICATION
- CDNA SYNTHESIS
- EXTRACTION OF DNA FRAGMENTS FROM GELS
- ENZYMATIC REACTIONS
- TRANSFORMATION OF BACTERIA AND PLASMIDS
- DENATURATION OF DNA, RNA, AND PROTEINS
- LABELING OF DNA, RNA, AND PROTEINS
- BACTERIAL GROWTH
- LYSIS REACTIONS AT 100 °C
- MIXING OF PCR SETUPS

Specifications

- MAX SPEED: 3,000 RPM
- TEMP RANGE: 15 – 100 °C
- TIMER RANGE: 15 SEC TO 99:30 H, CONTINUOUS
- HEATING RATE: 7 °C/MIN



Mixer

THERMO FISHER™ *LP Vortex Mixer*

Choose to continuously mix or pulse samples with the Thermo Scientific™ LP Vortex Mixer.

Unique Features

- SEVERAL ATTACHMENT AVAILABLE
- CAN BE USED FOR PLATES AND GELS

Applications

- MIXING
- PULSING

Specifications

- SPEED CONTROL: 0 TO 3000RPM
- OPERATING MODE CONTINUOUS / TOUCH
- MAX LOAD 0.5 KG / 1.1LBS

Mixer

THERMO FISHER™ *ThermoMixer 24 x 2 mL*

Select a complementary block package for this versatile mixer featuring variable speed and temperature controls designed for a variety of applications

Unique Features

- HEATING AND COOLING CAPABILITY
- COMPACT SIZE WITH QUIET OPERATION

Applications

- GENETIC ANALYSIS
- DNA AND RNA EXTRACTION
- SAMPLE PREPARATION
- BIOCHEMICAL STUDIES
- EXTRACTION OF METABOLITES
- INCUBATION
- AGITATION
- DIGESTION
- SAMPLES/STANDARDS FOR PEPTIDE MAPPING

Specifications

- TEMPERATURE RANGE (METRIC) 4°C TO 100°C
- TIME RANGE 1 MIN TO 96 HRS (1 MIN INCREMENT)
- ELECTRICAL REQUIREMENTS 120-240V

HOMOGENIZERS

FISHERBRAND

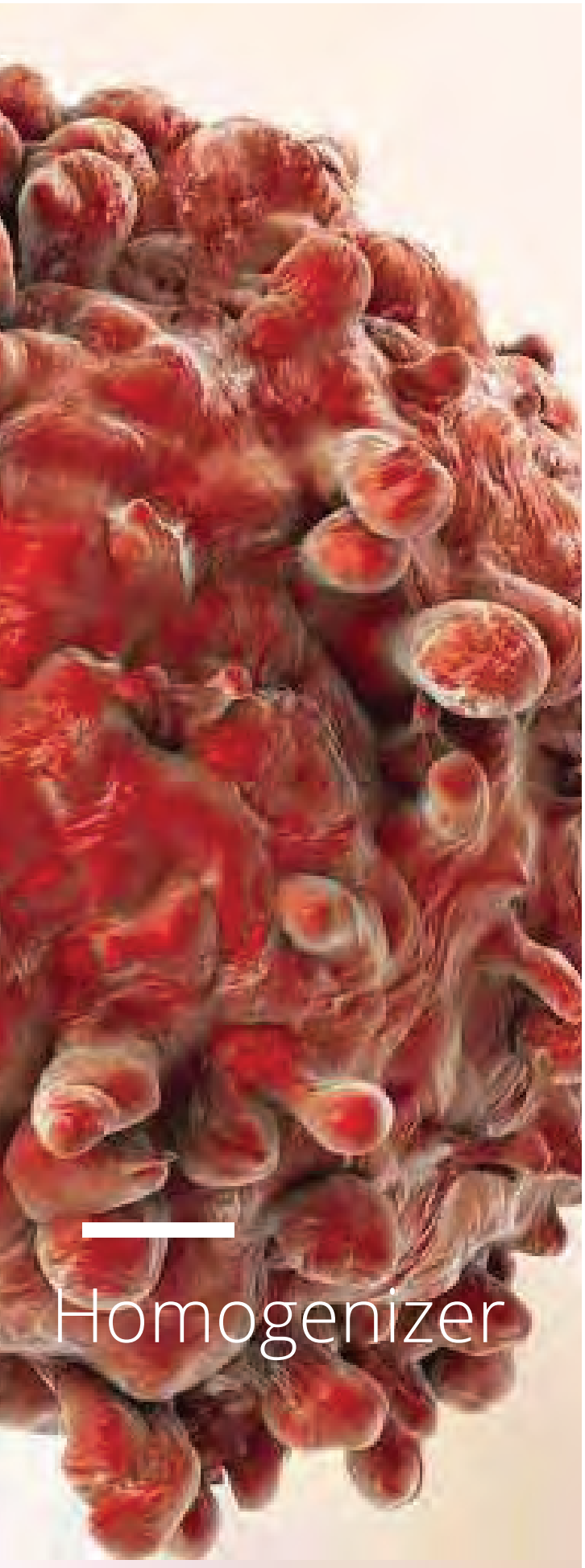
BEAD MILL 24

RUN TIME
1 to 99 sec

PERFORMANCE RANGE
0.8m/s to 6m/s in increments of 1.5m/s

NUMBER OF CYCLES
1 to 9

TUBE SIZE
2mL or 0.5 mL



Homogenizer

FISHERBRAND *Bead Mill 24*

Used for variety of applications that require grinding, lysing, and homogenization of biological samples prior to molecular extraction. Used with Fisherbrand™ Bead Kits.

Unique Features

- CONVENIENT FRONT-LOADING TUBE HOLDER
- PROCESSING RANGE IDEAL FOR SOFT TISSUE SAMPLES
- NO COOL-DOWN REQUIRED BETWEEN RUNS
- NO SAMPLE DEGRADATION DUE TO QUICK PROCESSING
- SMALLER FOOTPRINT TO MAXIMIZE BENCH SPACE

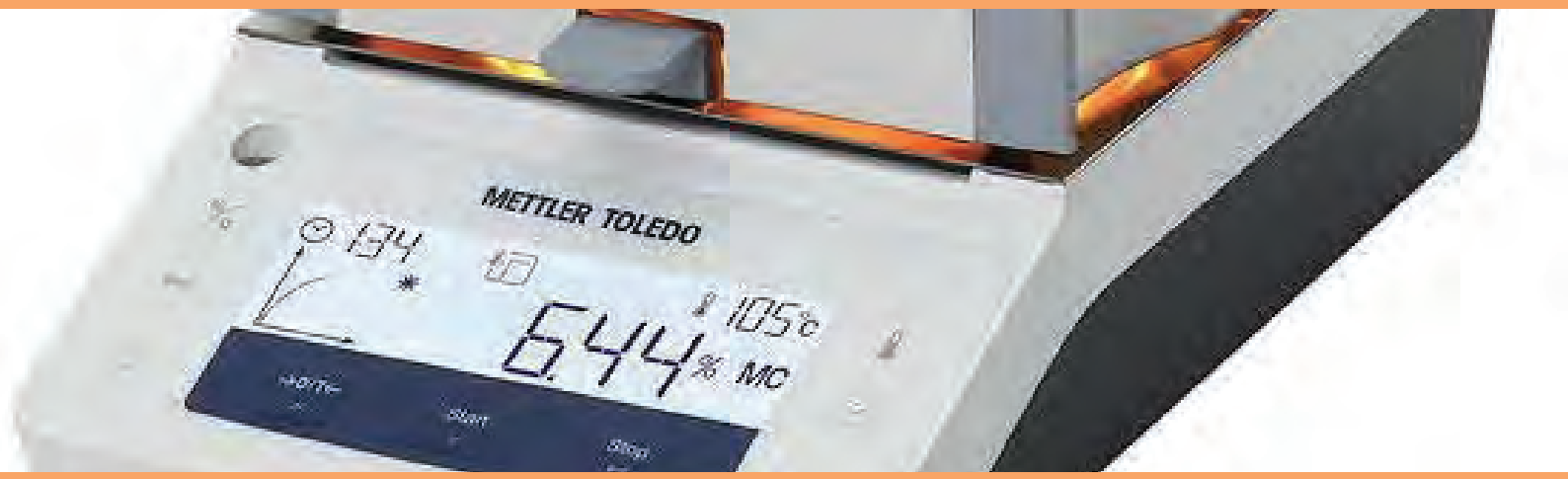
Applications

- DNA/RNA EXTRACTION
- TISSUE HOMOGENIZATION
- PROTEIN PURIFICATION

Specifications

- RUN TIME: 1 TO 99 SEC.
- PERFORMANCE RANGE: 0.8M/S TO 6M/S
- NUMBER OF CYCLES: 1-9

MOISTURE DETECTOR



METTLER TOLEDO

HE 73

CAPACITY
71 grams

TIMER
120 minutes

HEATER TYPE
Halogen

WEIGHING UNITS
% moisture, % dry, % ATRO
moisture dry, g of residue

Moisture Detector

METTLER TOLEDO™ *HE 73*

The Mettler Toledo HE73 Halogen Moisture Analyzer is a robust, reliable and cost-effective solution for determining moisture content of your products.

Unique Features

- BACKLIT LCD DISPLAY
- FULLY AUTOMATIC OR TIMED SWITCH-OFF
- RESULT DISPLAY IN %MC, %DC, %ATRO MC, % ATRO DC
- READABILITY: 1MG, 0.01% MC

Applications

- PERCENT MOISTURE DETERMINATION
- PERCENT MOISTURE REGAIN DETERMINATION
- PERCENT SOLID DETERMINATION
- WEIGHING

Specifications

- TEMPERATURE RANGE (METRIC): 50 TO 200 °C
- REPEATABILITY: 0.15% (2G SAMPLE),
- 0.05% (10G SAMPLE)

PLATE WASHER

BIOTEK

405 LS

WASH CYCLES
1 to 250

OPERATING TEMPERATURE
15˚ to 30˚C

SOAK TIME
Up to 60 minutes

VOLTAGE
100 to 240V

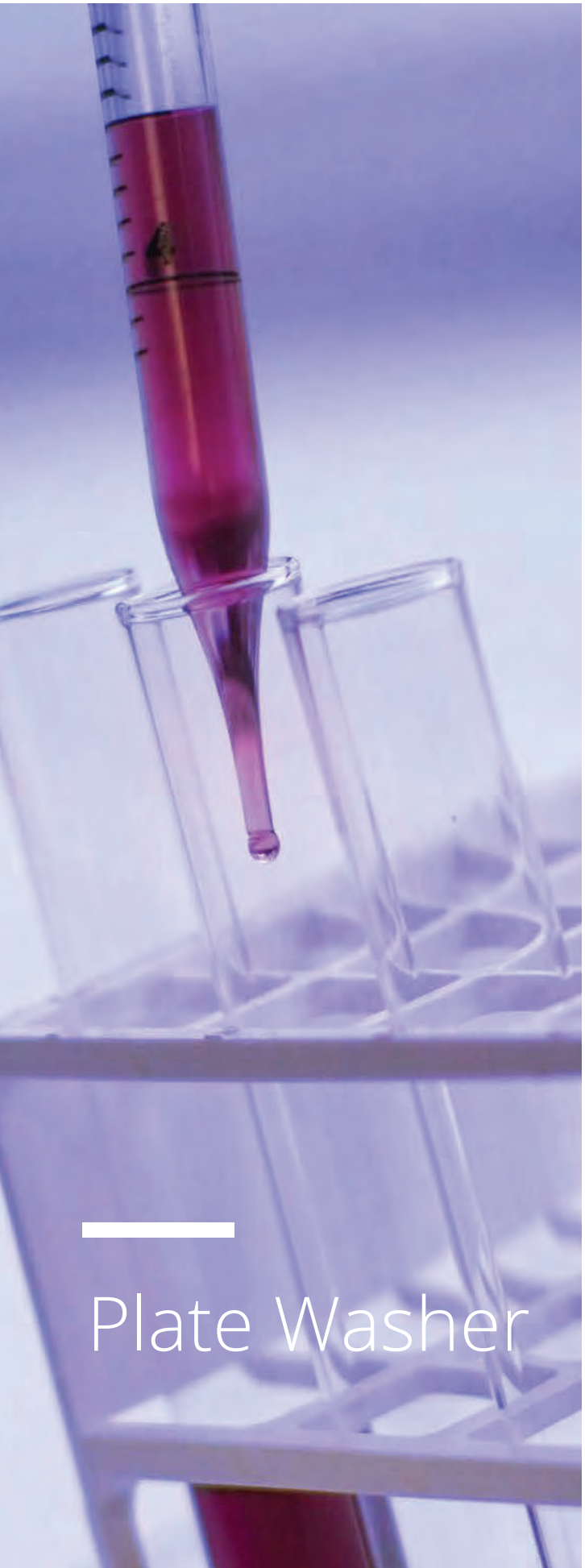


Plate Washer

BIOTEK
405 LS

The 405™ LS Microplate Washer is the fifth generation BioTek washer, known for superior performance and reliability for washing protocols ranging from gentle cell washing to vigorous ELISAs. The 405 LS has a simple user interface for creation and execution of wash, dispense, aspirate and maintenance protocols within the extensive onboard software.

Unique Features

- MAGNETIC AND POLYSTYRENE BEAD ASSAYS
- ANGLED DISPENSE TUBES
- ADJUSTABLE FLOW RATES
- EXTENSIVE ONBOARD SOFTWARE

Applications

- ELISA
- BEAD WASHING
- CELL WASHING /MEDIA EXCHANGE

Specifications

- MICROPLATE TYPES: 96- AND 384-WELL
- SEPARATION: BIOMAGNETIC SEPARATION
- SHAKING: PROGRAMMABLE UP TO 60 MINUTES
- ULTRASONIC ADVANTAGE™
- VERIFY™ CLOG DETECTION
- VOLUME RANGE: 25 TO 3,000 ML/WELL
- WASH CYCLES: 1 - 250

PLATE READERS

PROMEGA

GLOMAX DISCOVER

SAMPLE FORMAT
6 - 384-well plates

READ SPEED
Less than 1 min

WAVELENGTH
350–700 nm

TEMPERATURE RANGE
Ambient to 45˚C

INVITROGEN

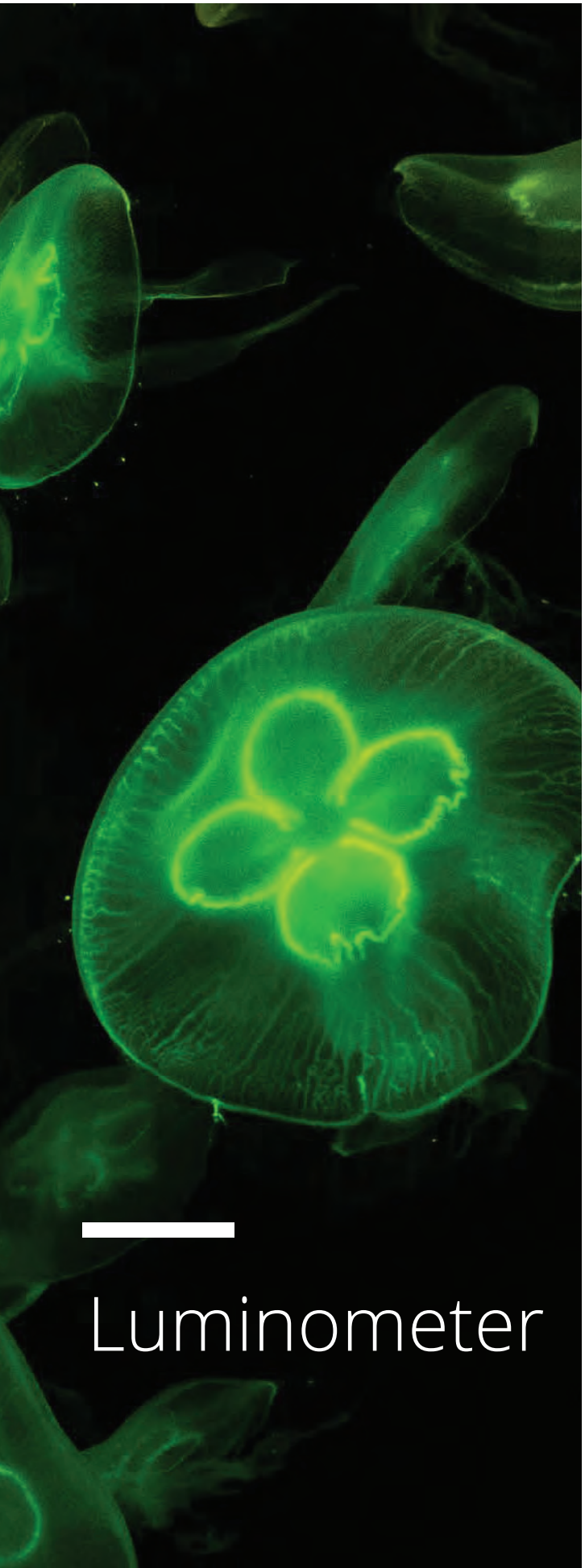
VARIOSKAN

SAMPLE FORMAT
6 - 1536 well plates

READ SPEED
less than 1 min

WAVELENGTH
360 - 670 nm

TEMPERATURE RANGE
Ambient to 45˚C



Luminometer

PROMEGA *GloMax® Discover System*

GloMax® Discover is a ready-to-use multimode plate reader developed with Promega reagent chemistries to provide a simple means of detecting luminescence, fluorescence and absorbance. This advanced plate reader provides flexible use of filters and includes high-performance luminescence, fluorescence, UV-Visible absorbance, BRET and FRET, two-color filtered luminescence and kinetic measurement capabilities.

Unique Features

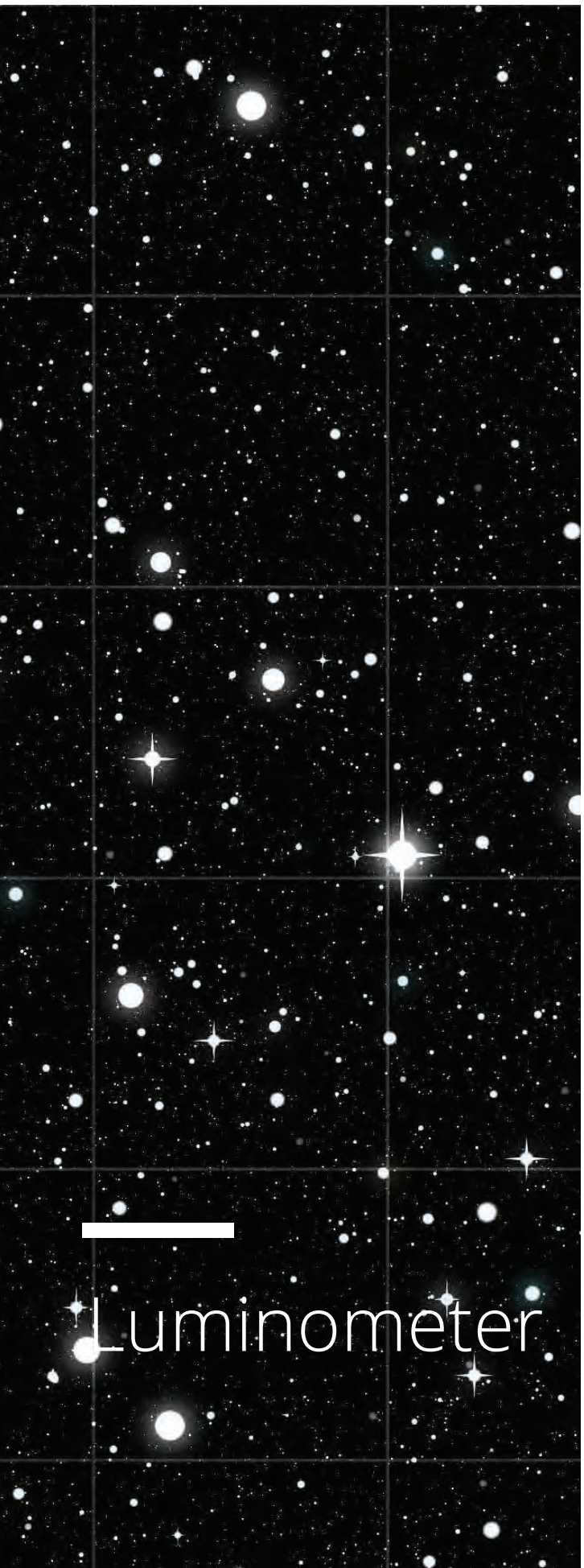
- FILTER PADDLES AND AUTOMATIC FILTER SWITCHING
- EASY TWO-COLOR MULTIPLEXING ASSAYS
- QUICK READ-SPEEDS FOR HIGH EFFICIENCIES
- COMPATIBLE FOR 3RD PARTY AUTOMATION CONTROL
- PLATE MASK
- LOW CROSS-TALK BETWEEN WELLS

Applications

- LUMINESCENCE
- FLUORESCENCE
- UV-VISIBLE ABSORBANCE
- BRET AND FRET DETECTION

Specifications

- SAMPLE FORMAT: 6, 12, 24, 48, 96 AND 384-WELL
- READ SPEED: 96-WELL PLATE: LESS THAN 1 MINUTE
- WAVELENGTH RANGE: 350-700NM
- DETECTION LIMIT: 3 × 10-21 MOLES OF LUCIFERASE
- DISPENSE VOLUME RANGE: 5-200 ML
- TEMPERATURE RANGE: AMBIENT TO 45°C
- SHAKING PATTERN: LINEAR OR ORBITAL PATTERNS
- SHAKING INTENSITY: 100-500 CYCLES/MINUTE



Luminometer

THERMO SCIENTIFIC *Varioskan LUX*

Designed for bioscience researchers with a wide variety of needs, the Thermo Scientific™ Varioskan™ LUX multimode microplate reader comes equipped with a flexible range of measurement technologies including Absorbance, Fluorescence Intensity, Luminescence, AlphaScreen, and Time-Resolved Fluorescence.

Unique Features

- UP TO FIVE MEASUREMENT TECHNOLOGIES
- FILTER AND MONOCHROMATOR OPTICS
- SPECTRAL SCANNING FOR ASSAY OPTIMIZATION
- FIVE MEASUREMENT MODES
- INTEGRATED GAS CONTROL
- AUTOMATIC DYNAMIC RANGE SELECTION

Applications

- LUMINESCENCE
- FLUORESCENCE
- UV-VISIBLE ABSORBANCE
- BRET AND FRET DETECTION

Specifications

- PLATE TYPE 6 – 1536 WELL PLATES
- LIGHT SOURCE XENON FLASH LAMP AND LED
- WAVELENGTH RANGE ABSORBANCE: 200 – 1000NM
- FLUORESCENCE INTENSITY: EXCITATION: 200 – 1000NM,
- TIME-RESOLVED FLUORESCENCE: EXCITATION 334NM
- LUMINESCENCE: 360 – 670NM
- ACCURACY 0.003ABS OR ± 2%

BIOANALYZER

46 HOW TO F ND THE PERFECT SUNGLASSES FOR YOUR FACE SHAPE

AGILENT

2100

OPERATING TEMPERATURE

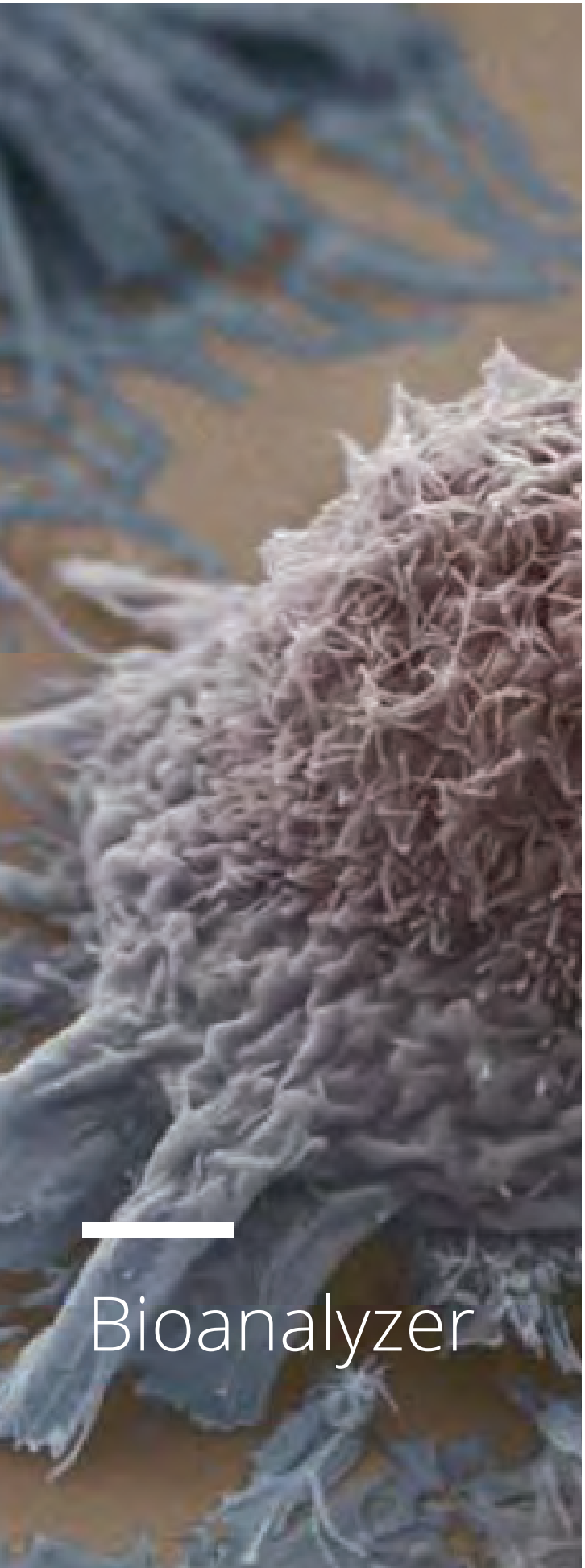
15˚ to 27˚C

FREQUENCY

50 to 60 Hz

VOLTAGE

100 to 240 V



Bioanalyzer

AGILENT
2100 Bioanalyzer

The 2100 Bioanalyzer system is an established automated electrophoresis tool for the sample quality control of biomolecules. The 2100 Bioanalyzer instrument, together with the 2100 Expert Software and Bioanalyzer assays, provide highly precise analytical evaluation of various samples types in many workflows, including next generation sequencing (NGS), gene expression, biopharmaceutical, and gene editing research.

Unique Features

- REPLACEABLE ELECTRODE CARTRIDGES
- OFFERS IQ AND OQ SERVICES
- MINIMUM EXPOSURE TO HAZARDOUS MATERIALS

Applications

- DNA, RNA, AND PROTEIN ANALYSIS

Specifications

- AMBIENT TEMPERATURE: 15-27 °C

MICROSCOPY

LAXCO
LMC-2000

DETECTION
Bright-field
Phase Contrast

WORKING DISTANCE
22 mm

MAGNIFICATION
4x, 10x, 40x, 100x

LAXCO
MS-102

DETECTION
Bright-field

WORKING DISTANCE
20 mm

MAGNIFICATION
10x, 20x

INVITROGEN
EVOS 5000

DETECTION
Fluorescence
Chromogenic

WORKING DISTANCE
60 mm

MAGNIFICATION
4x

INVITROGEN
EVOS 7000

DETECTION
Fluorescence
Chromogenic

WORKING DISTANCE
60 mm

MAGNIFICATION
4x

LEICA
DMI1

DETECTION
Phase Contrast
Bright-field

WORKING DISTANCE
40 mm

MAGNIFICATION
10x, 20x, 40x

Compound Microscope

LAXCO *LMC2000 Brightfield*

Provides bright, stable color temperature image. Laxco™ LMC-2000 Compound Microscope System allows for polarization elements to be easily inserted or removed from the optical path.

Unique Features

- SEALED 40X TO PREVENT ACCIDENTAL DAMAGE
- COOL, STABLE, COLOR TEMPERATURE
- CORRECTED FOR EYEGLASSES
- CARRYING HANDLE
- USB CONNECTIVITY

Applications

- BRIGHTFIELD
- DARKFIELD
- SIMPLE
- POLARIZATION
- PHASE CONTRAST

Specifications

- WIDTH (METRIC): 20.7CM
- DIAMETER (METRIC): 40.5CM
- HEIGHT (METRIC): 38.7CM
- OPTICAL DESIGN: INFINITY, DIN, PLAN TO 22MM FOV
- EYEPIECE: 10X, 20MM FOV

LAXCO
MS102 Stereo Microscope

Utilizes fixed dual magnification optical system. Laxco™ MS Series Fixed Magnification Stereo Microscope System are research-grade instrument with wide choice of zoom magnification ranges and most commonly found in general laboratory.

Unique Features

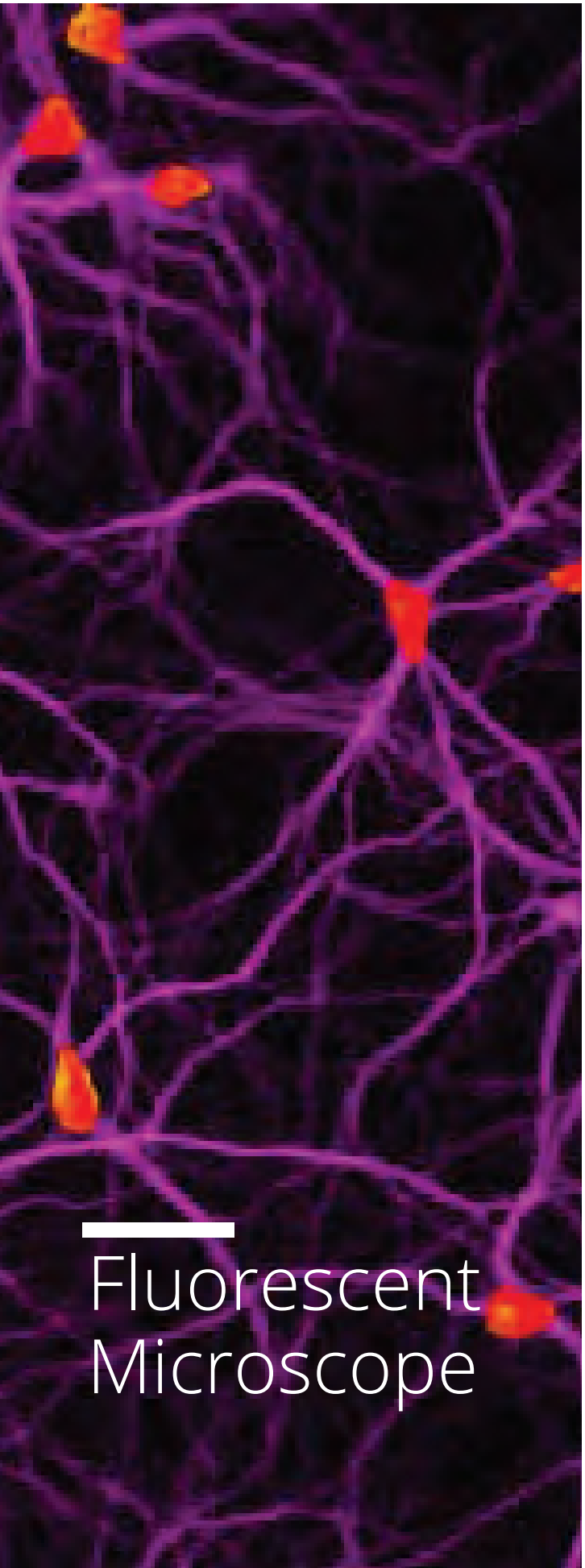
- MULTIPLE COMBINATIONS OF MAGNIFICATIONS
- DUAL DIOPTER ADJUSTMENTS
- PARFOCALITY MAINTAINED BETWEEN MAGNIFICATION
- CLEARLY MARKED NEURAL KNOBS

Applications

- BRIGHTFIELD
- DARKFIELD
- SIMPLE

Specifications

- MAGNIFICATION POWER 10X TO 20X
- EYEPIECE 10X
- TRANSMITTED FLUORESCENT
- HALOGEN REFLECTED ILLUMINATION
- FIELD OF VIEW 20MM TO 10MM



INVITROGEN *EVOS M5000 Imaging*

The EVOS M5000 Imaging System is a fully integrated digital inverted microscope for four-color fluorescence, transmitted-light and color applications. With an interface designed for usability, an advanced, yet flexible, illumination light system, sophisticated autofocus mechanism and high-resolution CMOS camera.

Unique Features

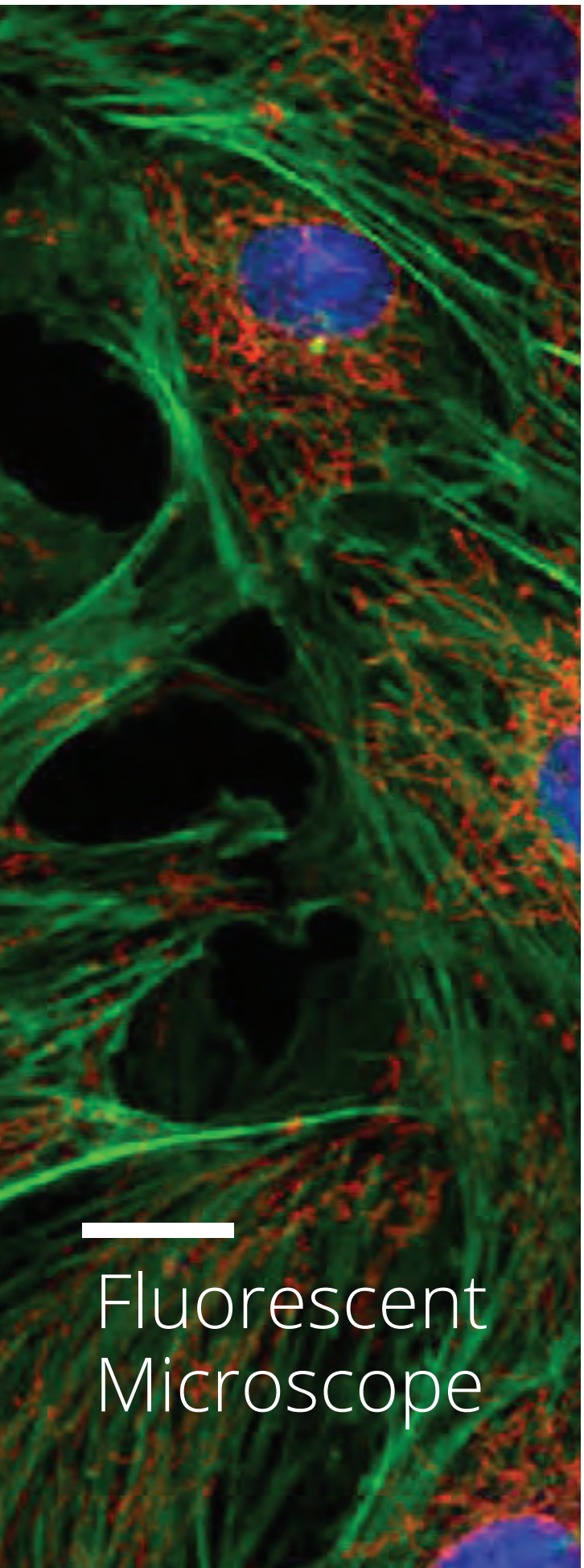
- EASY INSTALLATION
- USER DEFINED FOUR-COLOR FLUORESCENCE
- AUTO-FOCUS
- ON-BOARD SOFTWARE
- ACCESS TO THERMO FISHER CLOUD IMAGING APP

Applications

- CHROMOGENIC
- COLORIMETRIC
- FLUORESCENT

Specifications

- OLOR: ASSORTED COLORS
- DIMENSIONS: 18 IN (W) X 23 IN (H) X 18 IN (D)
- FOR USE WITH (EQUIPMENT): EVOS™
- PRODUCT LINE: EVOS™
- PRODUCT SIZE: 1 SYSTEM
- SHIPPING CONDITION: ROOM TEMPERATURE
- WEIGHT: 36 LB



Fluorescent Microscope

INVITROGEN *EVOS M7000 Imaging*

The EVOS M7000 Imaging System is a high-performance, fully automated, inverted, multi-channel fluorescence and transmitted light imaging system. It was developed to meet today's expectations for image quality, user interface interactions, data generation speed and flexibility, and end-user value.

Unique Features

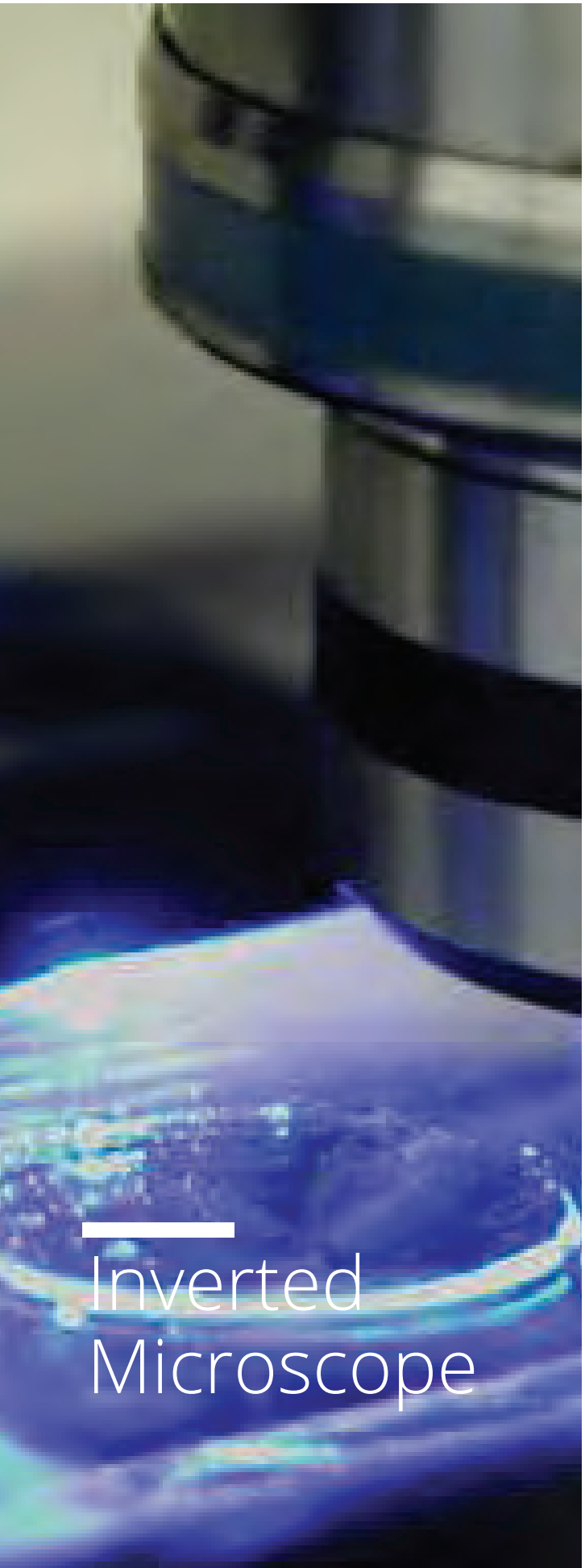
- • OUTSTANDING IMAGE QUALITY AND VERSATILITY
- • EXCEPTIONAL USABILITY WITH FULLY AUTOMATED
- • HIGH-SPEED IMAGE ACQUISITION
- • FULLY INTEGRATED TIME-LAPSE LIVE CELL IMAGING
- • POWERFUL IMAGE ANALYSIS

Applications

- CHROMOGENIC
- FLUORESCENT

Specifications

- MPRODUCT LINE: EVOS™
- PRODUCT SIZE: 1 SYSTEM
- SHIPPING CONDITION: ROOM TEMPERATURE
- CAMERAS: HIGH-SENSITIVITY 3.2 MP
- CONDENSER: 60-MM LONG WORKING DISTANCE



LEICA MICROSYSTEMS *DMi1 Inverted Microscope*

The Leica DMi1 inverted microscope supports your specific work routine in your cell culture lab. Its operation is so intuitive, its handling so comfortable that you can fully concentrate on your work. Choose the functions you need, and, if necessary, you can easily add a variety of accessories that are important for your work.

Unique Features

- LED LUMINATION
- AUTO INTENSITY
- QUICK CHANGE WORKING DISTANCE
- DATA STORAGE
- MODULAR EXPANSION

Applications

- BRIGHTFIELD
- AUTOMATED
- PHASE CONTRAST

Specifications

- FIELD OF VIEW 18 MM
- HEAD: BINOCULAR W/ INTEGRATED EYEPIECES
- EYEPIECES: 10X/18MM EYEPIECES FIXED
- NOSEPIECE: 4 POSITION
- OBJECTIVES: HI PLAN 4X, PHASE CONTRAST
- S80 CONDENSER - 80MM WORKING DISTANCE
- 2 POSITION SLIDERS
- STAGE: PLAIN FLAT TOP STAGE

CROSSLINKING

FISHERBRAND

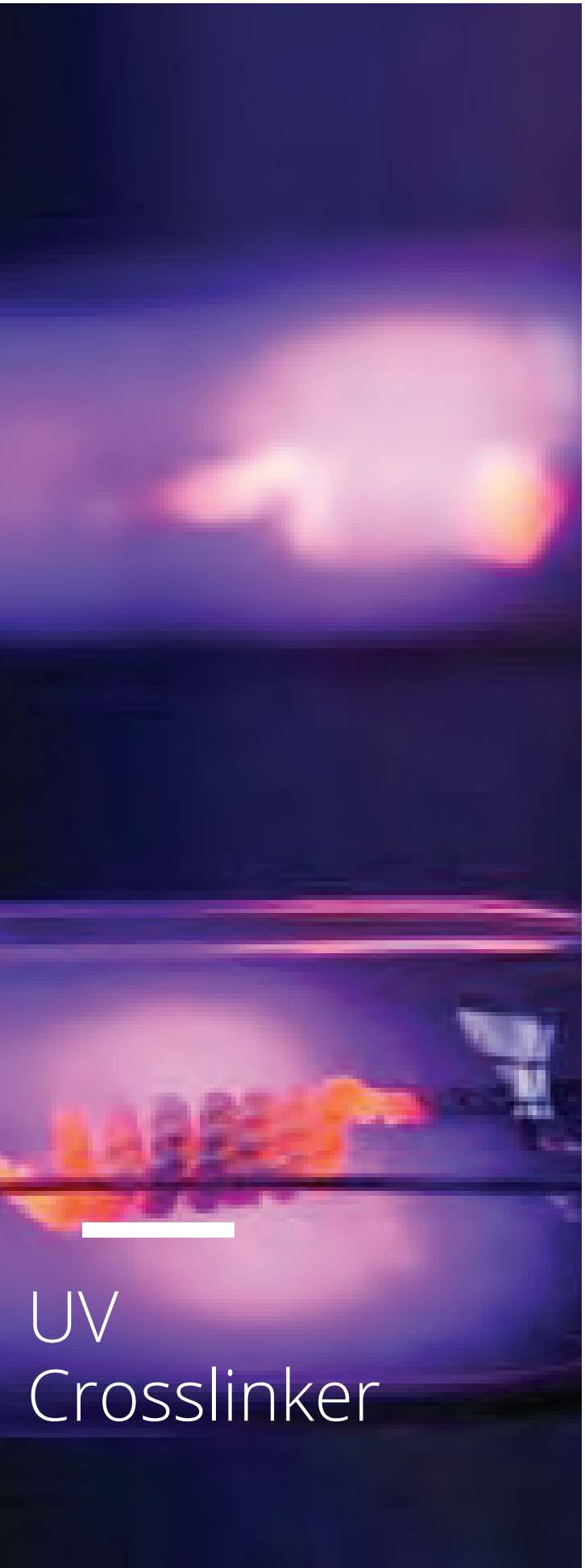
UV CROSSLINKER

HERTZ

50 - 60 Hz

TEMPERATURE

16 to 28 °C



FISHERBRAND *UV Crosslinker*

Provides a safe, time-efficient solution with a controlled amount of ultraviolet radiation.

Unique Features

- LARGE UV PROTECTIVE WINDOW
- NO MORE MANUAL CALIBRATION REQUIRED
- TWO MODES OF OPERATION - ENERGY OR TIME

Applications

- CROSS-LINKING DNA OR RNA TO MEMBRANES
- SOUTHERNS AND NORTHERNS PREPARATION

Specifications

- TEMPERATURE RANGE (METRIC): 16° TO 28°C
- HERTZ: 50/60HZ

IMAGING

BIO-RAD

CHEMIDOC MP

DETECTION METHODS

Colorimetric
Chemiluminescent
Fluorescent

APPLICATIONS

Electrophoresis
Multiplex Western Blots
Identify/Quantify Proteins
Identify/Quantify Nucleic Acids
Protein-ligand Interactions

INVITROGEN

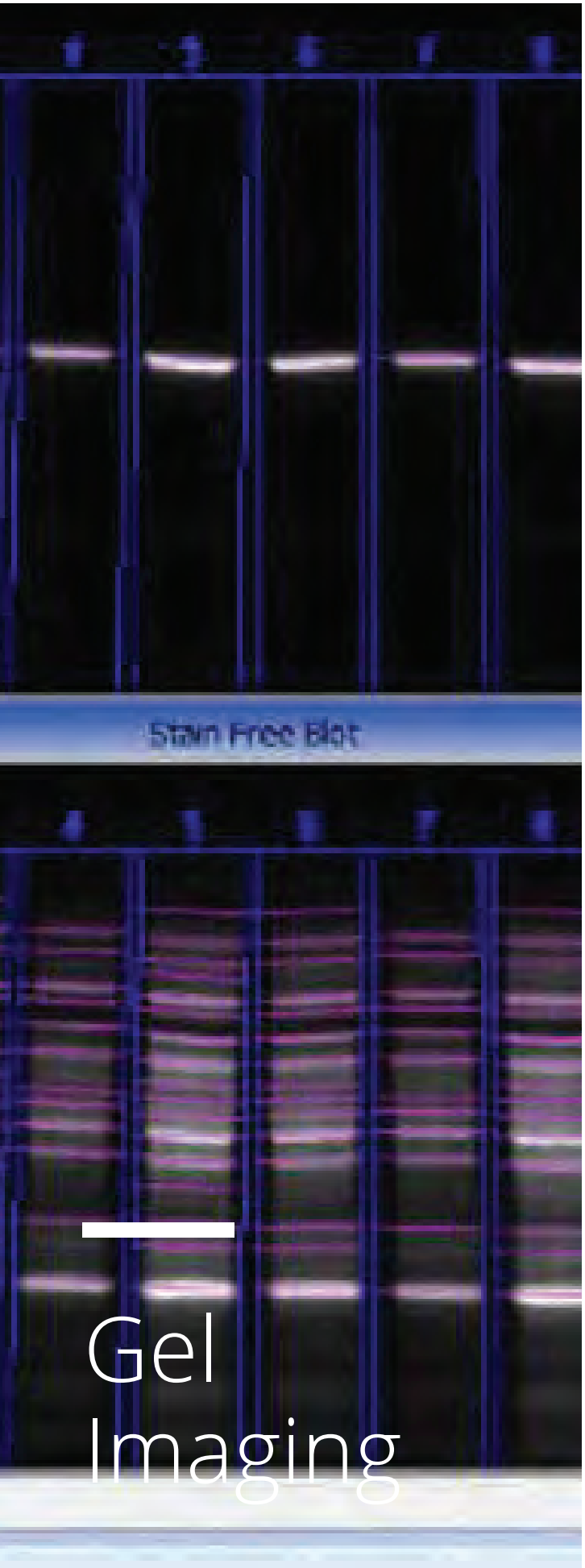
IBRIGHT FL1000

DETECTION METHODS

Chemiluminescent,
IR Fluorescence,
Nucleic acid gels,
RGB Fluorescence

APPLICATIONS

Chemiluminescence Westerns
Protein Gels
DNA Gels
Multiplex Western Blots
Near-IR Western Blots
RGB Fluorescence Western Blots



Gel Imaging

BIO-RAD *ChemiDoc MP*

ChemiDoc Imagers offer best-in-class performance with ease of use for visible light (RGB) and far red/near infrared (FR/NIR) fluorescence and chemiluminescence detection and all general gel documentation applications.Stain-free imaging enables immediate visualization of proteins without gel staining and instant verification of protein transfer to blots.

Unique Features

- SENSITIVE DETECTION OF SECONDARY ANTIBODIES
- LOW FLUORESCENCE BACKGROUND
- CHEMILUMINESCENCE SENSITIVITY
- EASY-TO-USE SOFTWARE
- MULTIPLEX FLUORESCENCE DETECTION
- STAIN-FREE PROTEIN NORMALIZATION

Applications

- ELECTROPHORESIS
- BLOTTING

Specifications

- DATA OUTPUT 16-BIT OR 8-BIT: SCN, TIFF, JPEG FILES
- OPERATING TEMPERATURE 10-28°C
- OPERATING HUMIDITY 10-85% RELATIVE HUMIDITY
- DETECTOR COOLED CCD, 6 MEGAPIXELS
- MAXIMUM IMAGE AREA (W X H) 21 X 16.8 CM

Gel Imaging

INVITROGEN *iBright FL1000*

apture images and analyze data from western blots and gels efficiently and easily with the Invitrogen iBright FL1000 Imaging System. This high-performance instrument enhances the imaging experience through powerful hardware, advanced automated technologies, and an interface that is easy to use for researchers of all experience levels.

Unique Features

- 9.1 MP COOLED CCD CAMERA
- • FIVE FLUORESCENCE CHANNELS
- • SMART EXPOSURE TECHNOLOGY
- • SIMPLE INTERFACE
- • ADVANCED AUTOMATED FEATURES

Applications

- IMAGING FLUORESCENT WESTERN BLOTS
- CHEMILUMINESCENT WESTERN BLOTS,
- STAINED PROTEIN AND NUCLEIC ACID GELS

Specifications

- NUMBER OF CHANNELS: 7 POSITIONS MOTORIZED
- DIMENSIONS: 68.0 X 38.2 X 59.8 CM
- FIELD: 22.5 X 18.0 CM
- PRODUCT LINE: IBRIGHT™
- PRODUCT SIZE: 1 SYSTEM
- WEIGHT: 50 KG (110 LBS)
- SHIPPING CONDITION: ROOM TEMPERATURE

IMMUNASSAY

LUMINEX

MAGPIX XPONENT

DETECTION

Electrochemiluminescence

APPLICATIONS

Biomarker analysis
Cell signaling assays
Gene expression quantification

MESO SCALE

MESO QUICKPLEX SQ 120

DETECTION

Electrochemiluminescence

APPLICATIONS

Biomarker analysis
Cell signaling assays

Immunoassay

LUMINEX *MAGPIX®* *System*

The MAGPIX® system, combined with our MILLIPLEX® MAP magnetic bead-based multi-analyte panels, MILLIPLEX® Analyst 5.1 software and technical support, provides you with a complete smaller scale solution for rapid, accurate biomarker quantification.

Unique Features

- LOW-COST
- MORE THAN 125 BEAD-BASED ASSAY KITS
- MULTIPLEX
- EASE OF USE – CCD IMAGING

Applications

- BIOMARKER ANALYSIS AND QUANTIFICATION
- CELL SIGNALING ASSAYS

Specifications

- TEMPERATURE: 15 °C – 35 °C (59 °F – 95 °F)
- HUMIDITY: 20% – 80%RH, NON-CONDENSING
- ANALYZE MULTIPLE 96-WELL PLATES PER BATCH
- ANALYZE MULTIPLE ASSAY TEMPLATES PER PLATE
- SAMPLE UPTAKE VOLUME 20 ML – 200 ML
- REMOVABLE DRIVE BOTTLE AND WASTE BOTTLE
- DISPOSABLE DRIVE BOTTLE VOLUME: 650 ML
- WASTE BOTTLE VOLUME: 850 ML

MESO SCALE
MESO QuickPlex SQ 120

The QuickPlex instrument is the newest multiplexing instrument from MSD, offering affordable access to high-performance, electrochemiluminescence immunoassays. This compact system has been engineered for reliability, ease of use, and low cost of ownership. The combination of rapid read times and the ability to perform multiple, simultaneous tests on a single sample increases productivity, saves sample, and delivers results quickly.

Unique Features

- ECL DETECTION FOR BEST SENSITIVITY
- SINGLE AND MULTIPLEX ASSAYS
- SINGLE-WELL READ MODE
- SMALL FOOTPRINT
- ULTRA-FAST READ TIMES
- DEVELOPED UNDER DESIGN CONTROL
- WINDOWS 7 COMPATIBLE

Applications

- BIOMARKER ANALYSIS AND QUANTIFICATION
- CELL SIGNALING ASSAYS

Specifications

- DETECTION ELECTROCHEMILUMINESCENCE
- READ TIME SECTOR ASSAY PLATES: 1 MIN 30 SEC
- QUICKPLEX ASSAY PLATES: 2 MIN 45 SEC
- MULTIPLEX CAPABLE UP TO 10 ASSAY SPOTS PER WELL
- INSTRUMENT DYNAMIC RANGE > 105

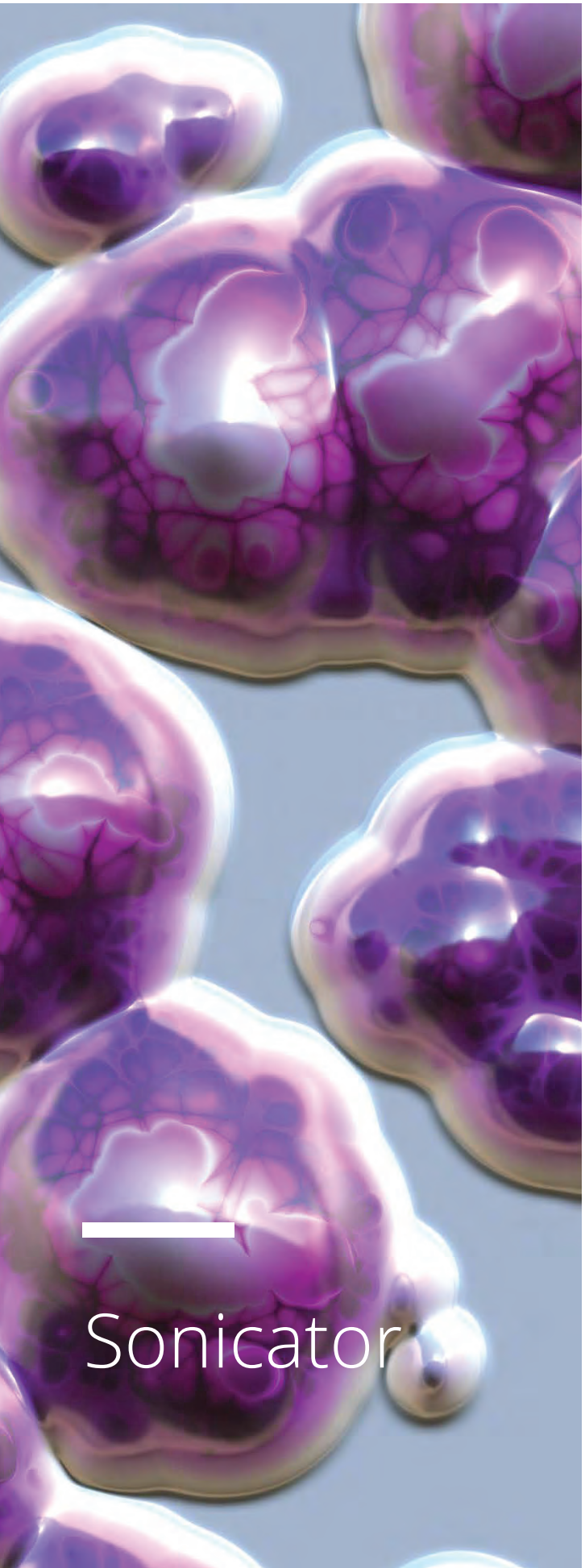
SONICATORS

FISHERBRAND

705 SONIC DISMEMBERATOR

APPLICATIONS

IDEAL FOR CELL DISRUPTION
HOMOGENIZATION
CHIP/DNA SHEARING
NANO PARTICLE DISPERSION
PROTEIN EXTRACTION
SONOCHEMISTRY
SOIL EXTRACTION
MIXING



Sonicator

FISHERBRAND *Model 705 Sonic Dismembrator*

Ultra-high power with advanced programming for all liquid processing applications, 220V. Includes standard 1/2 in. Replaceable tip probe (#FB4220) for processing 20-250 mL volumes. There are many probe size options available which allow for processing 0.2-1000 mL volumes.

Unique Features

- PROGRAMMABLE FROM 1 SEC. TO 99 HR.S.
- SAVE UP TO 10 DIFFERENT PROGRAMS
- PULSE MODE (1 SECOND TO 24 HOURS)
- OPTIONAL TEMPERATURE MONITORING

Applications

- IDEAL FOR CELL DISRUPTION
- HOMOGENIZATION
- CHIP/DNA SHEARING
- NANO PARTICLE DISPERSION
- PROTEIN EXTRACTION
- SONOCHEMISTRY
- SOIL EXTRACTION
- MIXING

Specifications

- CAPACITY (METRIC): 0.2 TO 1000ML
- HERTZ: 50/60HZ
- WATTAGE: 700W
- TIMER: 1 SEC. TO 99 HRS.

WATER BATHS

FISHERBRAND

CPXH HEATED ULTRASONIC

MAX TEMPERATURE
69°C

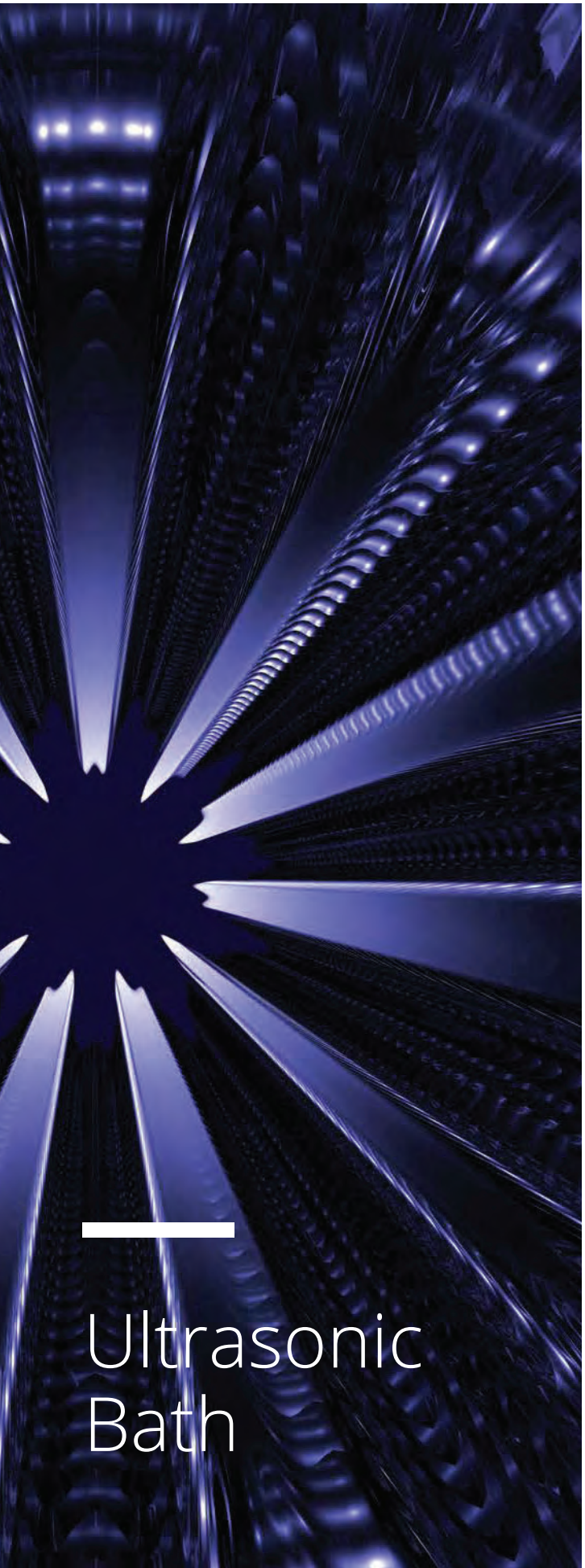
CAPACITY
5.7 L

THERMO SCIENTIFIC

PRECISION™ GENERAL PURPOSE BATH

MAX TEMPERATURE
100°C

CAPACITY
10 L



Ultrasonic Bath

FISHERBRAND *CPXH Series*

Outfit your lab with an industry classic. Fisher Scientific™ Ultrasonic Tabletop Cleaners offer rock-solid construction plus a hi-tech design and will provide you with years of reliable use.

Unique Features

- PROGRAMMABLE FUNCTIONALITY ALLOWS USER
- REPRODUCIBLE RESULTS
- AUTOMATIC ULTRASONIC ACTIVATION
- HIGH/LOW POWER CONTROL
- FEATURES AN ENERGY-SAVING SLEEP MODE
- HIGH-TEMP SAFETY ALARM INDICATOR

Applications

- CLEANING

Specifications

- SWEEP FREQUENCY ELIMINATES STANDING WAVES
- CAVITATION THROUGHOUT TANK
- 40KHZ RUGGED INDUSTRIAL TRANSDUCERS
- 99-MINUTE DIGITAL TIMER
- CAN BE HEATED UP TO 69°C/156.2°F

Water Bath

THERMO SCIENTIFIC™ *Precision™ General Purpose Bath*

Thermo Scientific Precision™ General Purpose Baths are designed to maintain water temperature from ambient to 100°C

Unique Features

- ADVANCED MICROPROCESSOR CONTROLLER
- AUDIBLE ALARMS
- SAVE COMMONLY USED SETTINGS
- ENHANCED HINGE DESIGN
- LOW-FLUID PROTECTION
- QUICK DISCONNECT DRAIN

Applications

- INCUBATE SAMPLES

Specifications

- CHAMBER MATERIAL STAINLESS STEEL
- DISPLAY MONOCHROME LCD
- TEMPERATURE UNIFORMITY ±0.2°C
- TEMPERATURE STABILITY ±0.1°C
- TEMPERATURE PRESETS 4

PH METERS

FISHERBRAND

ACCUMET XL150

MAX TEMPERATURE

105°C

ACCURACY

±0.002 pH

FISHERBRAND

ACCUMET XL200

MAX TEMPERATURE

105°C

ACCURACY

±0.002 pH

PH Meter

FISHER SCIENTIFIC
Accumet XL150

Provide advanced pH measurements with simple operation and offer a large, vivid color touch-screen display. Fisherbrand Accumet XL benchtop meters offer advanced features with simple operation to help ensure your measurements are reliable and your laboratory processes are efficient.

Unique Features

- ONE TO SIX POINT PH CALIBRATION
- TWO TO SIX POINT ISE CALIBRATION
- REAL-TIME ONSCREEN GRAPHING OF MEASUREMENTS
- USB PORTS FOR PRINTER OR COMPUTER INTERFACING
- TWO PORTS FOR OPTIONAL STIRRING PROBE
- FIVE SPEED SETTINGS

Applications

- MONITORING OF CRUCIAL PROCESS PARAMETERS

Specifications

- PH RANGE: -2.000 TO 20.000 PH
- PH RESOLUTION: 0.1, 0.01, 0.001 PH
- PH ACCURACY: ±0.002 PH
- ISE RANGE: 0.001 TO 19999 PPM, MG/L OR MOLAR
- ISE RESOLUTION: 0.001, 0.01, 0.1, 1
- TEMPERATURE RANGE: -5° TO +105°C

PH Meter

FISHER SCIENTIFIC *Accumet XL200*

Provide advanced measurements with simple operation and offer a large, vivid color touch-screen display that allows for dynamic functionality. Fisherbrand accumet XL200 pH/Conductivity benchtop meters offer advanced features with simple operation to help ensure your measurements are reliable and your laboratory processes are efficient.

Unique Features

- ONE TO SIX POINT PH CALIBRATION
- TWO TO SIX POINT ISE CALIBRATION
- REAL-TIME ONSCREEN GRAPHING OF MEASUREMENTS
- USB PORTS FOR PRINTER OR COMPUTER INTERFACING
- TWO PORTS FOR OPTIONAL STIRRING PROBE
- FIVE SPEED SETTINGS

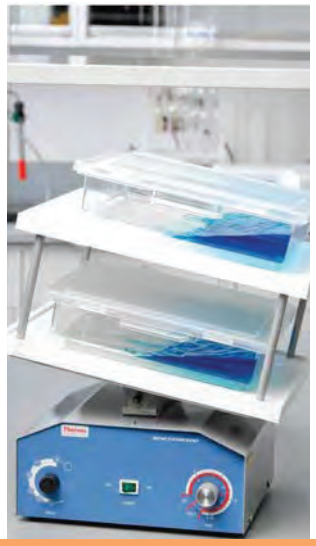
Applications

- MONITORING OF CRUCIAL PROCESS PARAMETERS

Specifications

- PH RANGE: -2 TO 20
- PH RESOLUTION: 0.1, 0.01, 0.001 PH
- PH ACCURACY: ±0.002 PH
- ISE RANGE: 0.001 TO 19999 PPM, MG/L OR MOLAR
- ISE RESOLUTION: 0.001, 0.01, 0.1, 1
- RESOLUTION: 0.1°C

SHAKERS



EPPENDORF
NEW BRUNSWICK S41I

MAX SPEED
400 rpm

TEMPERATURE RANGE
+4 ˚C TO 50 ˚C

EPPENDORF
INNOVA S44I

MAX SPEED
400 rpm

TEMPERATURE RANGE
0 ˚C TO 50 ˚C

THERMO SCIENTIFIC
COMPACT DIGITAL SHAKER

MAX SPEED
1200 rpm

TEMPERATURE RANGE
Ambient

THERMO SCIENTIFIC
VARI-MIX PLATFORM SHAKER

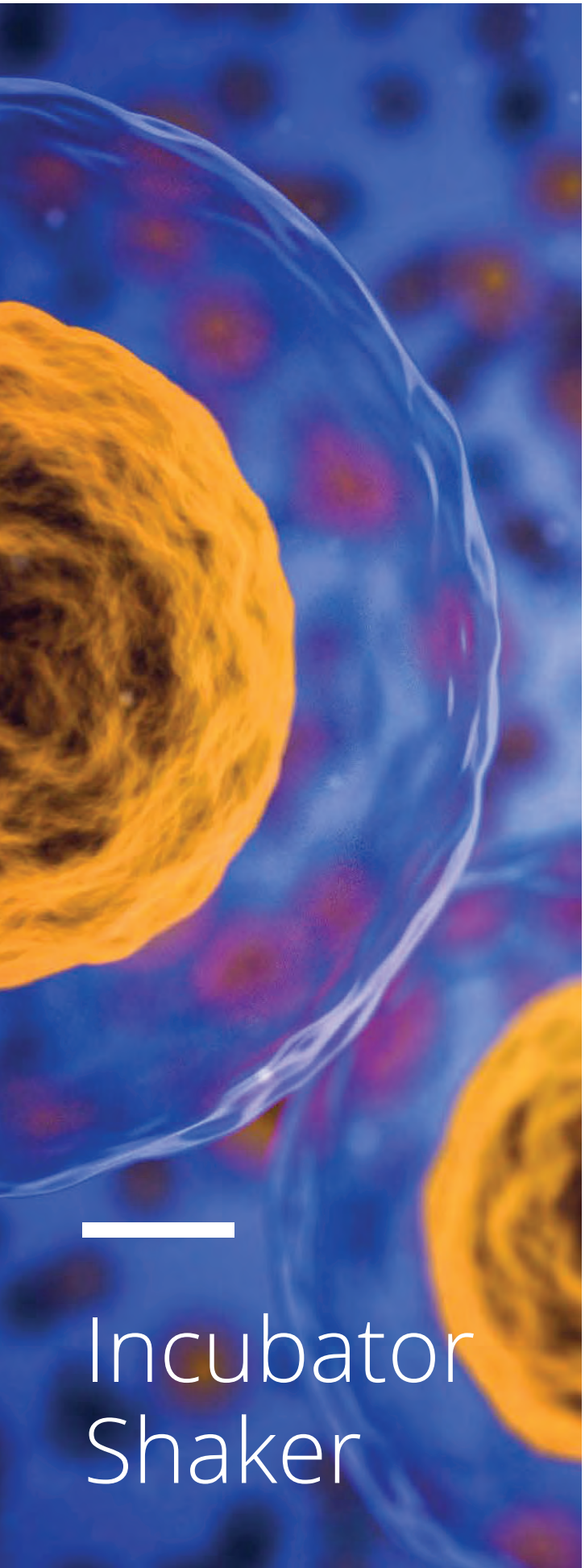
MAX SPEED
30 rpm

TEMPERATURE RANGE
Ambient

FISHERBRAND
ISOTEMP HOT PLATE STIRRER

MAX SPEED
400 rpm

TEMPERATURE RANGE
Ambient To 540˚C



Incubator Shaker

EPPENDORF *New Brunswick S41i*

The S41i precisely controls temperature, shaking speed, and CO2, providing the ideal environment for growing mammalian and stem cells in culture.

Unique Features

- STANDARD HIGH TEMPERATURE DISINFECTION
- INTUITIVE TOUCH SCREEN
- PERFORATED SHELF ALLOWS FOR STATIC INCUBATION
- 72-HOUR CONTINUOUS DATA LOGGING
- INCUBATOR WITH BUILT IN SHAKER

Applications

- CULTURING OF SUSPENSION CELLS
- INCUBATING ADHERENT CELLS

Specifications

- SPEED RANGE 25 – 400 RPM
- TEMPERATURE RANGE +4 °C TO 50 °C
- CO2 RANGE 0.1–20 %
- CAPACITY 170 L

Refrigerated Shaker

EPPENDORF *Innova S44i*

The new Innova S44i Biological Shaker is the next great addition to our renowned portfolio of life science solutions. Expand the potential of your lab and reap the benefits of the exceptional performance and reliability that come with every Eppendorf product.

Unique Features

- HIGHEST FLASK CAPACITY
- EPPENDORF X-DRIVE
- HIGH TEMPERATURE UNIFORMITY
- EASILY REACH ALL YOUR SAMPLES
- GLIDE-UP DOORS
- NEW TOUCHSCREEN USER INTERFACE
- CREATE MULTI-STEP PROGRAMS
- PHOTOSYNTHETIC LED LIGHT BANK

Applications

- GROW BACTERIA, YEAST, FUNGUS, AND ALGAE
- PLASMID DNA PRODUCTION AND PROTEIN EXPRESSION
- PROCESS AND MEDIA DEVELOPMENT
- MEDIA SCREENING AND OPTIMIZATION
- SEED CULTURES FOR BIOPROCESS SCALE-UP
- BIOFUEL RESEARCH
- FOOD QUALITY TESTING

Specifications

- TEMPERATURE ACCURACY: ±0.1 °C AT 37 °C
- TIMER: 0.01 – 95.59 H, CONTINUOUS

Shaker

THERMO SCIENTIFIC™ *Compact Digital Microplate Shaker*

Harness the efficiency of our microplate shaker, which is capable of shaking up to four microplates in one run.

Unique Features

- DIGITAL DISPLAY FOR EASY VIEWING
- COMPACT DESIGN
- TIMER RANGE: CONTINUOUS OR 1MIN TO 99HRS
- AUTOMATIC OVERLOAD SHUTDOWN: 4.4KG / 9.7LBS

Applications

- SHAKE PLATES, GELS, AND FLASKS

Specifications

- SPEED 150 TO 1,200RPM
- ORBIT 3MM (0.12 IN.)
- TIMER 1 MIN. TO 99 HR. 59 MIN./CONTINUOUS

Shaker

THERMO SCIENTIFIC™ *Vari-Mix™ Platform Rocker*

Utilize the steep angle rocking of the Thermo Scientific™ Vari-Mix™ Platform Rocker for applications such as hybridization, blotting and staining or destaining gels.

Unique Features

- LARGE WHITE NONSKID RUBBER MIXING PLATFORM
- TIMER CAN BE SET FOR CONTINUOUS
- PLATFORM REMOVES EASILY
- ALL FINISHES ARE CHEMICAL-RESISTANT
- OPTIONAL DOUBLE-TIER PLATFORM

Applications

- SHAKE PLATES, GELS, AND FLASKS

Specifications

- SPEED RANGE 5 TO 30 RPM
- VOLTAGE 120V
- ROCKING ANGLE 1 TO 48°

Shaker

FISHERBRAND™ *Isotemp™ Hotplate Mixer*

Experience precise stirring control, exceptional safety and temperature performance for your routine protocols.

Unique Features

- SLOW-SPEED STIRRING
- CONSISTENT SPEED CONTROL
- STRONG MAGNETIC COUPLING
- TEMPERATURE ADJUSTABLE IN 1 DEGREE INCREMENTS
- AUTOMATIC OVER-TEMPERATURE PROTECTION

Applications

- SHAKE PLATES, GELS, AND FLASKS

Specifications

- MAX TEMP 540°C
- MAGNETIC ELECTRIC STIRRER

CENTRIFUGES

EPPENDORF *5424*	EPPENDORF *5424R*	EPPENDORF *5430*	EPPENDORF *5702R*	EPPENDORF *5910R*	EPPENDORF *MINISPIN PLUS*
MAX SPEED 15,000 rpm	**MAX SPEED** 15,000 rpm	**MAX SPEED** 17,500 rpm	**MAX SPEED** 15,000 rpm	**MAX SPEED** 14,000 rpm	**MAX SPEED** 14,500 rpm
MAX ROTOR CAPACITY 24 x 2 mL	**MAX ROTOR CAPACITY** 24 x 2 mL	**MAX ROTOR CAPACITY** 6 x 50 mL	**MAX ROTOR CAPACITY** 4 x 100 mL	**MAX ROTOR CAPACITY** 4 x 750 mL	**MAX ROTOR CAPACITY** 12 x 2 mL
TEMPERATURE RANGE 10 ˚C TO 40 ˚C	**TEMPERATURE RANGE** Ambient	**TEMPERATURE RANGE** Ambient	**TEMPERATURE RANGE** 9 ˚C TO 40 ˚C	**TEMPERATURE RANGE** 11 ˚C TO 40 ˚C	**TEMPERATURE RANGE** Ambient

Centrifuge

EPPENDORF *5424R*

Centrifuge 5424 R is the refrigerated 24-place standard microcentrifuge for temperature sensitive samples. It offers efficient cooling performance for up to 24 x 1.5/2.0 mL tubes

Unique Features

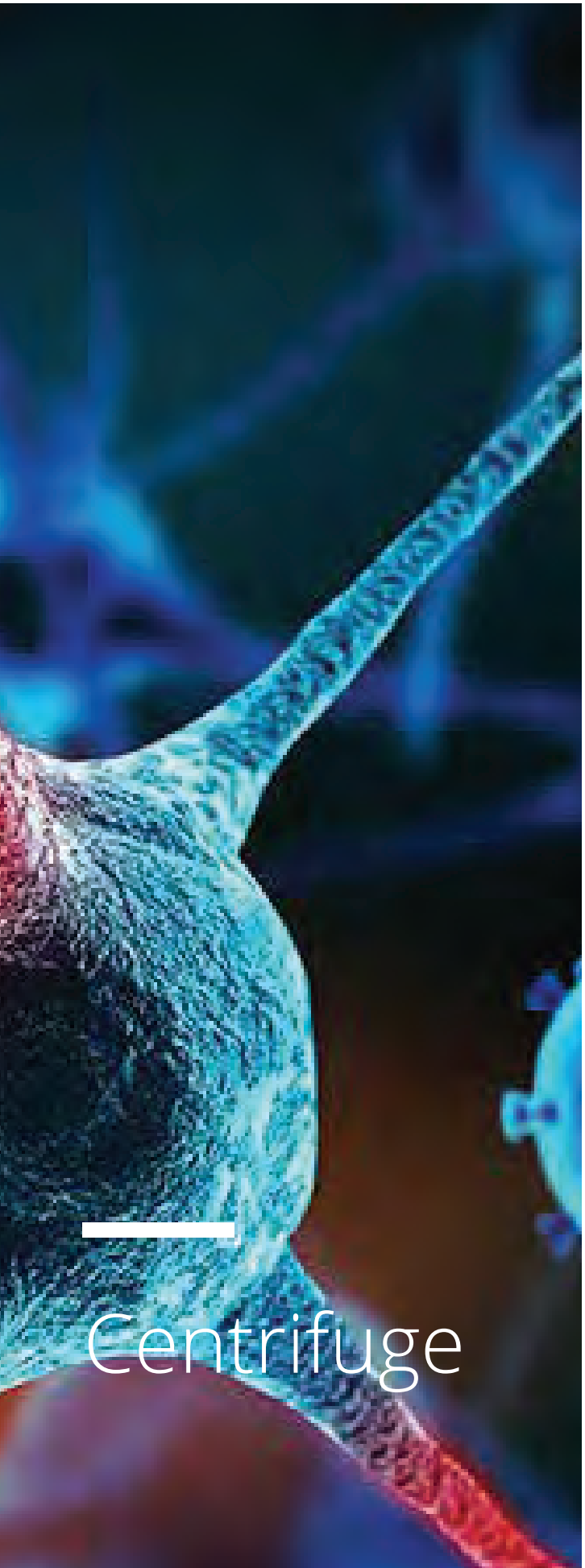
- TEMP RANGE FROM -10 °C TO +40 °C
- GUARANTEED TEMPERATURE OF 4 °C
- ECO POWER SHUT-OFF
- COMPRESSOR TECHNOLOGY REDUCES VIBRATIONS
- BUILT-IN CONDENSATION DRAIN

Applications

- SEDIMENTATION

Specifications

- MAX. ROTOR CAPACITY: 24 × 1.5/2.0 ML VESSELS
- MAX. SPEED: 21,130 × G (15,000 RPM)
- TEMPERATURE RANGE FROM -10 °C TO +40 °C
- TIMER: 30 S TO 9:59 H, WITH CONTINUOUS RUN
- VOLUME RANGE: 48 ML



EPPENDORF *5910R*

The refrigerated Centrifuge 5910 R combines high capacity and performance in a compact and ergonomic product design. It comes with a modern user interface and an advanced temperature management system.

Unique Features

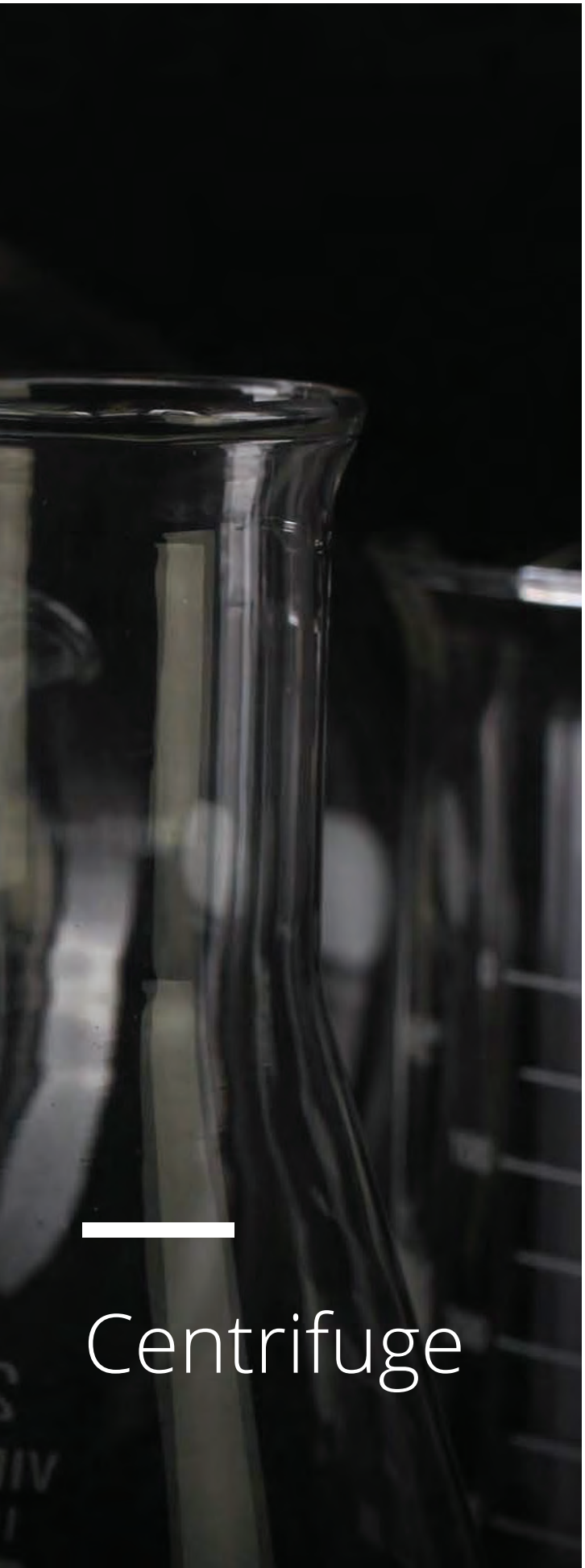
- SWING-BUCKET ROTORS AND ADAPTERS
- PLATE ROTOR OPTIONS
- FIXED-ANGLE ROTORS FOR HIGH-SPEED
- HIGH CENTRIFUGATION SPEED
- CENTRIFUGE LID WITH SOFT-TOUCH LID CLOSURE
- AUTOMATIC ROTOR RECOGNITION

Applications

- SEDIMENTATION

Specifications

- MAX. RCF 22,132 × G
- MAX. RCF WITH FIXED-ANGLE ROTOR 22,132 × G
- MAX. RCF WITH SWING-BUCKET ROTOR 5,234 × G
- SPEED 100 - 14,000 RPM
- MAX. CAPACITY 4 × 750 ML/4 × 5 MTP
- TEMPERATURE CONTROL RANGE -11 °C TO 40 °C



Centrifuge

EPPENDORF *5702R*

The 5702 family of low speed, general purpose centrifuges was especially designed to meet the requirement of low- to mid-throughput clinical research and cell culture labs. They are compact in design so that one can fit comfortably on every lab bench, quiet in operation to benefit your work environment.

Unique Features

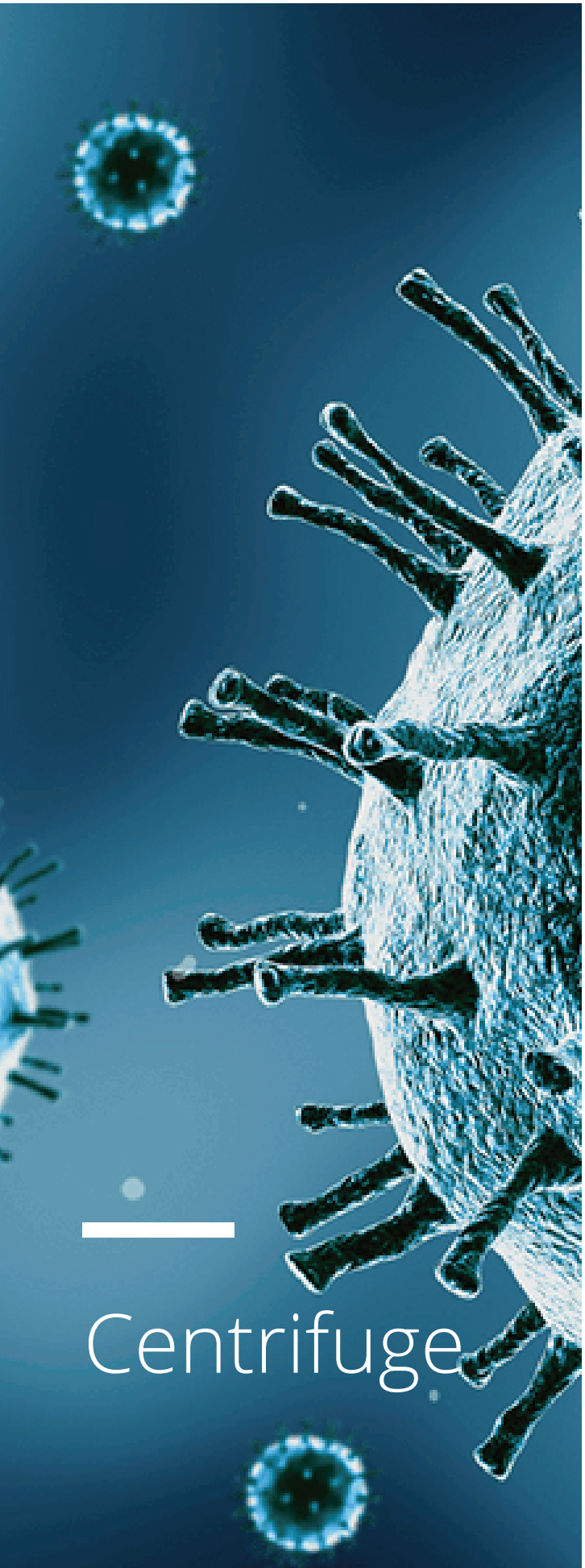
- VERY QUIET
- LOW ACCESS HEIGHT FOR SIMPLE LOADING
- SOFT BRAKE FUNCTION
- OPTIMIZED FOR CELL SEPARATION
- STAINLESS STEEL ROTOR CHAMBER
- ELECTRONIC IMBALANCE DETECTION

Applications

- SEDIMENTATION

Specifications

- TEMPERATURE SETTINGS FROM -9 °C TO 40 °C
- TIMER 0 – 99 MIN, WITH CONTINUOUS RUN
- VOLUME RANGE 400 ML
- MAX. CAPACITY 4 × 100 ML



Centrifuge

EPPENDORF *5430*

Microcentrifuge with multipurpose capabilities Unique cross-over Centrifuge 5430 and 5430 R combine the best features of a microcentrifuge (small footprint) and multipurpose centrifuge (versatility) in one instrument.

Unique Features

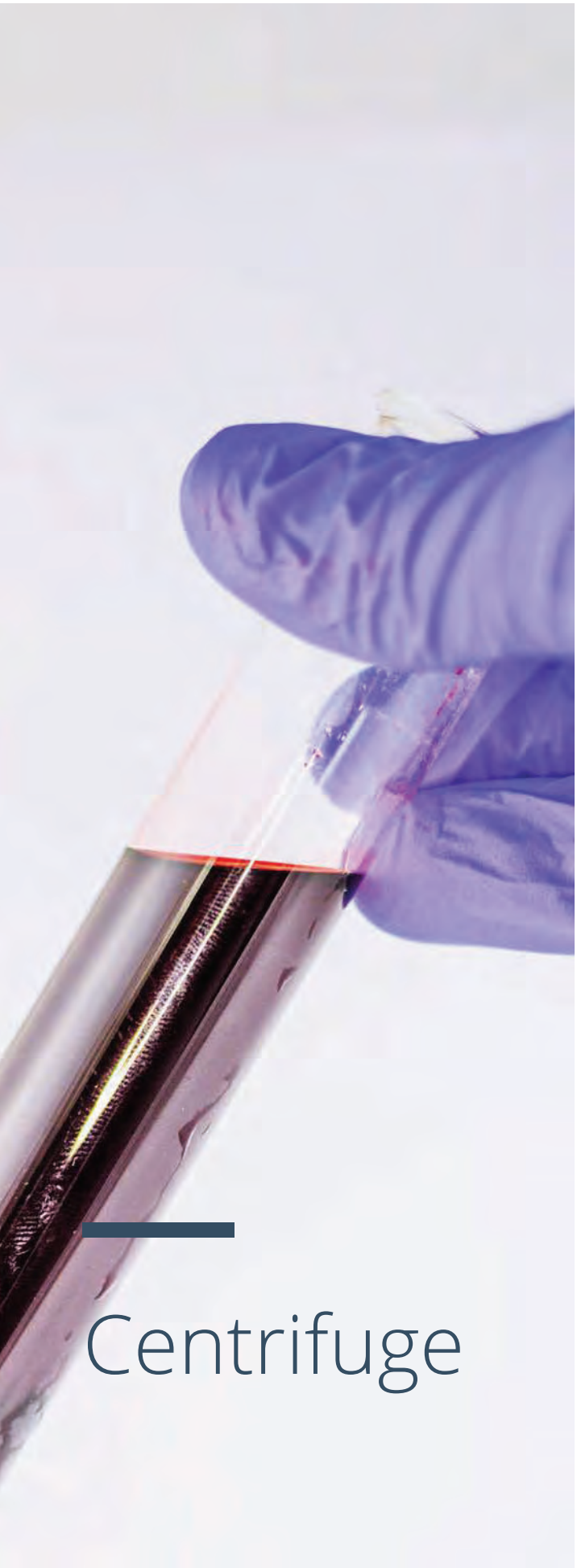
- REMARKABLE VERSATILITY WITH 12 ROTORS
- SOFT-TOUCH ONE-FINGER LID CLOSURE
- MENU-DRIVEN, MULTI LINGUAL OPERATION MENU
- 5 PROGRAM KEYS FOR EASY ACCESS
- SAVES UP TO 50 USER-DEFINED PROGRAMS

Applications

- SEDIMENTATION

Specifications

- MAX. ROTOR CAPACITY: 48 × 1.5/2.0 ML, 6 × 50 ML
- MAX. SPEED: 30,130 × G (17,500 RPM)



Centrifuge

EPPENDORF *5424*

Centrifuge 5424 R is the refrigerated 24-place standard microcentrifuge for temperature sensitive samples. It offers efficient cooling performance for up to 24 x 1.5/2.0 mL tubes.

Unique Features

- OPTIBOWL® DESIGN FOR QUIET OPERATION
- SOFT-TOUCH ONE-FINGER LID CLOSURE
- ECO POWER SHUT-OFF ENGAGES AFTER 8 HOURS

Applications

- SEDIMENTATION

Specifications

- MAX. RCF 21,130 × G
- MAX. CAPACITY 24 × 1.5/2.0 ML
- VOLUME RANGE 48 ML

Centrifuge

EPPENDORF *MiniSpin Plus*

Entry-level centrifuges that are powerful and easy-to-use. They are small enough so that each workstation can be equipped with a »personal« centrifuge. Two models are available to meet your performance requirements.

Unique Features

- AUTOMATIC RPM/RCF CONVERSION
- EXTENDED TIME TO 99 MIN OR CONTINUOUS

Applications

- SEDIMENTATION

Specifications

- SPEED: 800 – 14,500 RPM (100 RPM STEPS)
- MAX. CAPACITY 12 × 1.5/2.0 ML
- ACCELERATION TIME 13 S
- MAX. RCF 14,100 × G

SPECTROPHOTOMETERS

EPPENDORF

BIO-PHOTOMETER D30

THERMO SCIENTIFIC

NANODROP PNE

WAVELENGTH RANGE

230 - 600 nm

WAVELENGTH RANGE

190 - 850 nm

Spectrophotometer

EPPENDORF *BioPhotometer D30*

The Eppendorf BioPhotometer D30 is the third generation of Eppendorf's well-established line of BioPhotometers. The compact instrument clearly processes data, records at fixed wavelengths and makes evaluating results fast and simple.

Unique Features

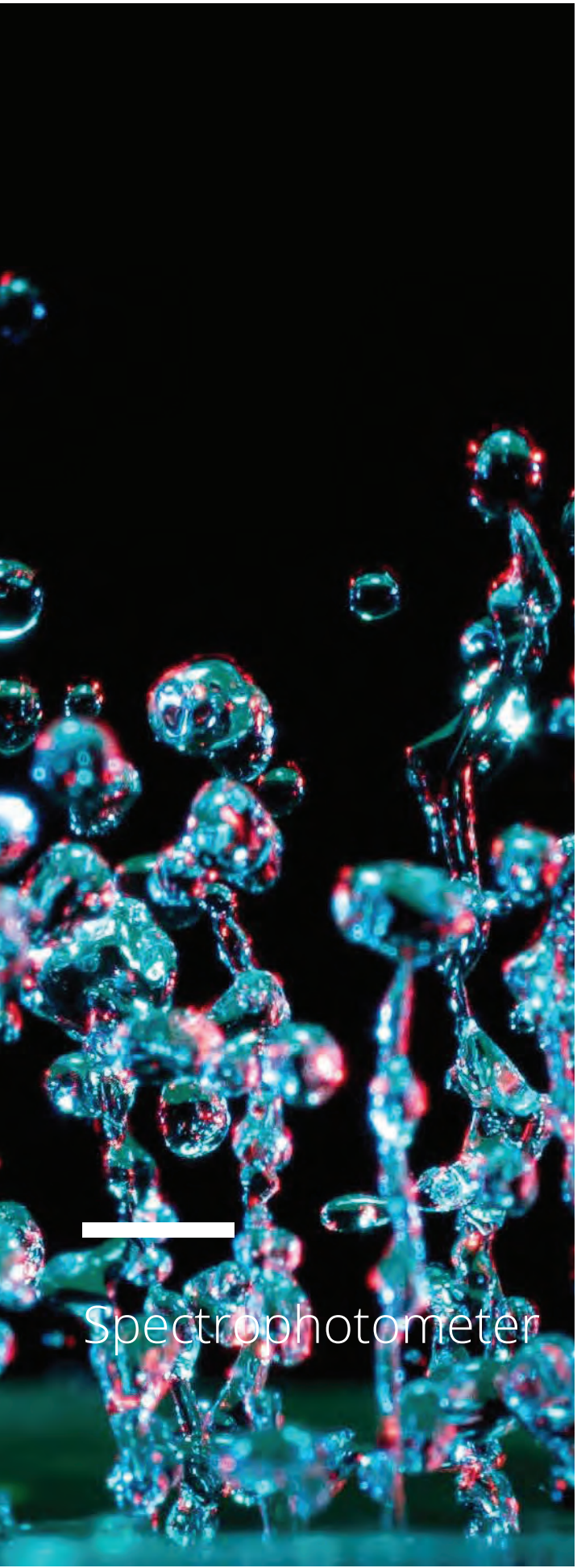
- ABSORPTION MEASUREMENTS FOR ONE OR MORE FIXED
- SCAN FOR SPECIFIC UV APPLICATIONS
- AUTOMATICALLY DETERMINED PURITY RATIOS
- PREPROGRAMMED APPLICATIONS FOR QUICK START
- INTEGRATED APPLICATION AND RESULTS MEMORY
- DATA TRANSFER VIA USB, ETHERNET OR VIA E-MAIL

Applications

- NUCLEIC ACID QUANTIFICATION
- DIRECT PROTEIN QUANTIFICATION (UV 280 NM)
- MICROVOLUME MEASUREMENT VIA MCUVETTE
- BACTERIA GROWTH MEASUREMENT (OD 600)
- PROTEIN QUANTIFICATION
- 490 NM: CYTOTOXICITY ENDPOINT ASSAY

Specifications

- ABSORPTION RANGE 0 A – 3.0 A (260 NM)
- WAVELENGTH RANGE : 230 - 600 NM



Spectrophotometer

THERMO SCIENTIFIC *NanoDrop One*

Prevent costly delays with an enhanced understanding of sample quality using the Thermo Scientific™ NanoDrop™ One Microvolume UV-Vis Spectrophotometers. Innovative Thermo Scientific™ Acclaro™ Sample Intelligence technology is built into every instrument for improved measurement accuracy and contaminant identification.

Unique Features

- ACCLARO SAMPLE INTELLIGENCE TECHNOLOGY
- CONNECTIVITY FOR STORAGE, PRINTING AND SHARING
- INTEGRATED LEARNING CENTER
- NO DILUTIONS REQUIRED

Applications

- QUANTIFY NUCLEIC ACID AND LABELED NUCLEIC ACIDS
- QUANTIFY PROTEIN SAMPLES AND LABELLED PROTEINS
- MEASURE DNA AND RNA
- OPTICAL DENSITY
- CALCULATE SAMPLE PURITY

Specifications

- SAMPLE TEMPERATURE 37 °C
- PHOTOMETRIC RANGE PEDESTAL: 0–550 A;
- SAMPLE VOLUME (METRIC) MINIMUM 1ML
- SPECTRAL BANDWIDTH ≤1.8 NM
- VOLTAGE 12 V (DC)
- WAVELENGTH ACCURACY ±1 NM
- WAVELENGTH RANGE 190–850 NM

CHROMATOGRAPHY

AGILENT

1260 HPLC

APPLICATIONS

Water purification
Detection of impurities in pharmaceutical industries
Pre-concentration of trace components
Ligand-exchange chromatography
Ion-exchange chromatography of proteins
High-pH anion-exchange chromatography of carbohydrates and oligosaccharides

AGILENT *1260 High Performance Liquid Chromatography*

The Agilent 1260 Series HPLC System is a must have for an analytical lab. The modular and compact design of the HPLC System allows users to configure to their needs while taking up a minimal amount of bench space. This HPLC system features a powerful combination of speed, resolution, and sensitivity with a high throughput and improved quality of results.

Unique Features

- Vialsampler
- Quaternary Pump
- Diode Array Detector (DAD)
- Thermostat
- All in One HP Desktop

Applications

- Purify Samples
- Isolate and Separate Compounds
- Monitor Degradation and Stability

Specifications

- TEMPERATURE RANGE 4-40°C
- WAVELENGTH BUNCHING 1 – 400 NM
- DIODE WIDTH < 1 NM
- FLOW CELL STANDARD 13-ML VOLUME
- NUMBER OF CHANNELS - 4
- INTERNAL VOLUME 1 ML PER CHANNEL
- PH RANGE 1 – 14

BLOTS AND GELS

INVITROGEN
E-GEL POWER SNAP SYSTEM

APPLICATIONS

Electrophoresis

INVITROGEN
IBIND

APPLICATIONS

Western Blots

INVITROGEN
IBLOT 2

APPLICATIONS

Western Blots

INVITROGEN
XCELL SURELOCK

APPLICATIONS

Electrophoresis

INVITROGEN
MINI GEL TANK

APPLICATIONS

Electrophoresis

Electrophoresis

INVITROGEN *E-Gel Power Snap System*

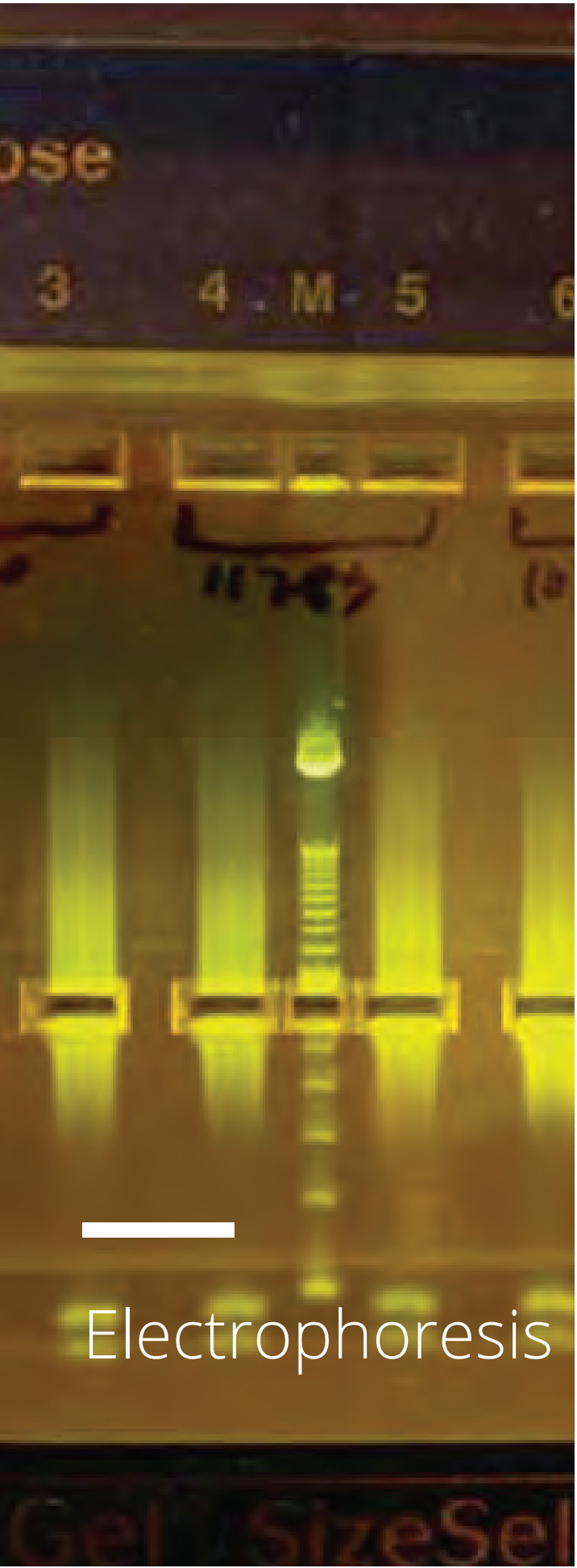
The Invitrogen E-Gel Power Snap Electrophoresis System's integrated design combines the convenience of rapid, real-time nucleic acid analysis with the precision of high-resolution image capture to reduce workflow time and accelerate discovery.

Unique Features

- SMALL, FAST, AND POWERFUL
- THE ALL-IN-ONE E-GEL POWER SNAP ELECTROPHORESIS DEVICE PROVIDES EVERYTHING YOU NEED FOR DNA GEL ELECTROPHORESIS AND GEL VISUALIZATION IN A SMALL LIGHTWEIGHT BENCHTOP SYSTEM. THE SYSTEM INCLUDES AN ELECTROPHORESIS POWER SUPPLY, BLUE-LIGHT TRANSILLUMINATOR, AND AMBER FILTER. THIS ENABLES GEL SEPARATION AND REAL-TIME SAMPLE TRACKING ON E-GEL AGAROSE GELS PRE-STAINED WITH SYBR SAFE OR SYBR GOLD II DNA STAINS. THE DEVICE ARRIVES WITH PRE-PROGRAMMED PROTOCOLS FOR EACH TYPE OF COMPATIBLE E-GEL AGAROSE GEL.
- UNSURPASSED CONVENIENCE OF DRY PRECAST E-GEL AGAROSE GELS
- RUN DNA SAMPLES IN AS LITTLE AS 10 MINUTES WITH DRY, PRECAST, PRE-STAINED E-GEL AGAROSE GELS. THE E-GEL DRY PRECAST AGAROSE GEL TECHNOLOGY PROVIDES SPEED AND CONVENIENCE, ELIMINATING ANY NEED FOR GEL PREPARATION OR STAINING. E-GEL AGAROSE GELS ARE AVAILABLE IN A VARIETY OF GEL PERCENTAGE AND A CHOICE OF TWO DNA STAINS. THE E-GEL POWER SNAP ELECTROPHORESIS DEVICE IS COMPATIBLE WITH ALL LOW-THROUGHPUT E-GEL PRECAST AGAROSE GELS, INCLUDING E-GEL EX, E-GEL SYBR SAFE, E-GEL GO!, E-GEL CLONEWELL II, AND E-GEL SIZESELECT II GELS*.
- IDEAL FOR CLONING WORKFLOW

Applications

- SEPARATION OF DNA
- VISUALIZATION OF ISOLATED DNA



INVITROGEN
iBind Flex

The iBind Flex Western Device is an automated western-processing device that performs every step from blocking to washes to antibody incubations via sequential lateral flow (SLF). SLF allows the timely release and flow of solutions and antibodies to the membrane without need of an external power source. Each solution is released from the iBind Flex device wells to an iBind Flex Card via SLF; the solutions are then wicked towards the stack region of the card.

Unique Features

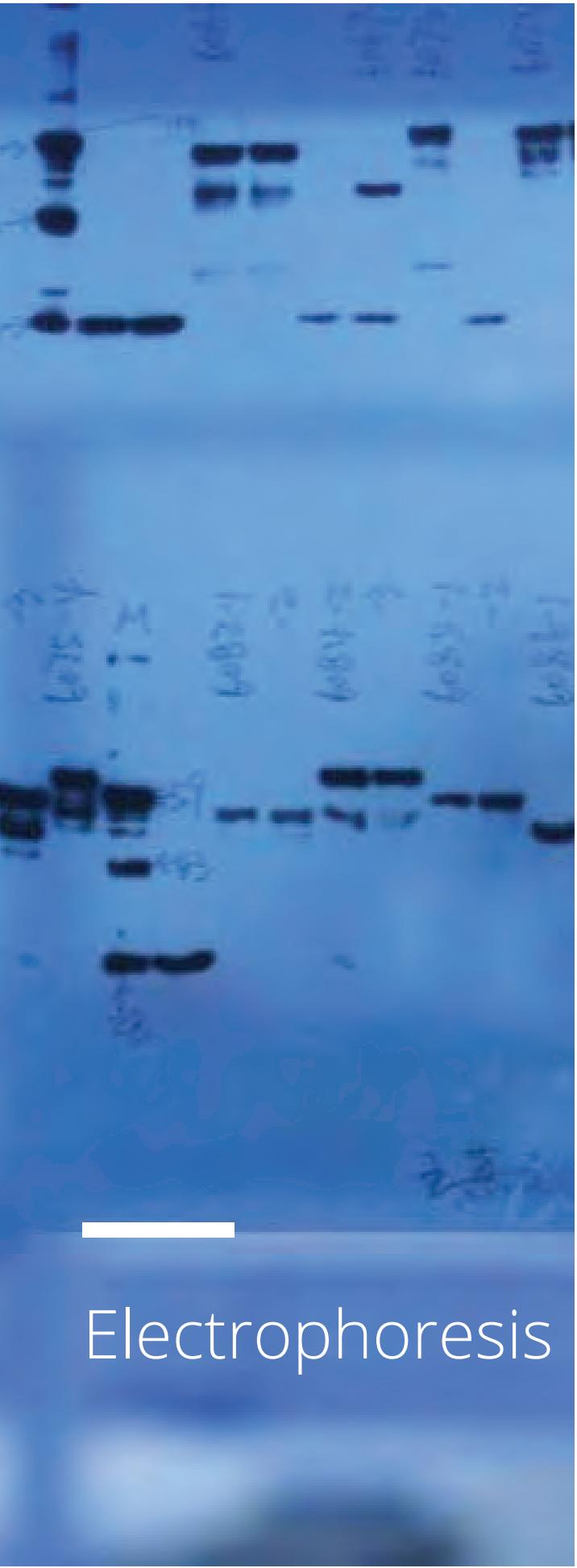
- SIMPLE, AUTOMATED SOLUTION
- NO EXTERNAL POWER SOURCE
- SUPERIOR REPRODUCIBILITY
- BETTER ANTIGEN ANTIBODY INTERACTION

Applications

- AUTOMATED WESTERN BLOT SET-UP

Specifications

- 2.5 HOUR TO DETECTION STAGE



Electrophoresis

INVITROGEN
iBlot 2 Dry Blotting System

The iBlot® 2 Gel Transfer Device is our second-generation dry transfer device, providing the same speed and convenience as the original iBlot® device, but with many new features. The iBlot® 2 Gel Transfer Device performs western blotting transfer simply, efficiently, and reliably, within seven minutes and without the need for liquid buffers.

Unique Features

- COMPLETE PROTEIN TRANSFER IN 7 MINUTES OR LESS
- HIGH DETECTION SENSITIVITY AND EVEN TRANSFER
- INCREASED BLOTTING RELIABILITY AND REPRODUCIBILITY
- FLEXIBLE GEL SIZE FORMATS AND MEMBRANE TYPES
- A SIMPLE, USER-FRIENDLY SYSTEM
- OPTIONS TO CREATE NEW CUSTOM PROGRAMS
- BUILT-IN TUTORIAL AND APPLICATION NOTES

Applications

BUFFER ION RESERVOIRS ARE INCORPORATED INTO THE GEL MATRIX (TRANSFER STACKS) INSTEAD OF BUFFER TANKS OR SOAKED PAPERS. THE HIGH DENSITY OF IONS IN THE GEL MATRIX ENABLES RAPID PROTEIN TRANSFER. DURING BLOTTING, THE COPPER ANODE DOES NOT GENERATE OXYGEN GAS AS A RESULT OF WATER ELECTROLYSIS, REDUCING BLOT DISTORTION (CONVENTIONAL PROTEIN TRANSFER TECHNIQUES, INCLUDING WET, SEMI-WET, AND SEMI-DRY, USE INERT ELECTRODES THAT GENERATE OXYGEN). WITH THE IBLOT® 2 DRY BLOTTING SYSTEM, TRANSFER TIME IS REDUCED BY THE SHORTENED DISTANCE BETWEEN ELECTRODES, HIGH FIELD STRENGTH, AND HIGH CURRENT. TRAPPED AIR BUBBLES, OFTEN CREATED DURING THE MANUAL PREPARATION OF THE BLOTTING SANDWICH LAYERS, ARE EASY TO AVOID DUE TO OUR UNIQUE DE-BUBBLING DESIGN THAT PROMOTES EVEN AND COMPLETE TRANSFER.

Electrophoresis

INVITROGEN
XCell SureLock Gel Electrophoresis System

The XCell4 SureLock™ Midi-Cell allows you to quickly and easily perform simultaneous vertical electrophoresis of 1–4 midi-gels without leaking, resulting in consistent performance. The XCell4 SureLock™ Midi-Cell is built with tough plastic material to boost durability and features a specially designed lid to enhance user safety.

Unique Features

- EASY TO USE
- SIMPLE ASSEMBLY (SEE FIGURE) AND OPERATION FOR THE ULTIMATE IN EASE OF USE. A SINGLE SURELOCK™ ACTUATOR SEALS ALL GELS WHILE ALLOWING FOR ZERO FORCE INSERTION AND EASY POSITIONING OF THE GELS FOR SAMPLE LOADING.
- FLEXIBLE
- RUNS UP TO FOUR NOVEX® MIDI-GELS AT ONCE, WHILE HAVING THE SAME APPROXIMATE FOOTPRINT AS THE CRITERION™ CELL (BIO-RAD), WHICH RUNS A MAXIMUM OF ONLY TWO GELS.
- EFFICIENT
- NO NEED FOR EXTERNAL COOLING ACCESSORIES; REQUIRES 25% LESS RUNNING BUFFER PER GEL THAN THE CRITERION™ CELL (340 ML VS. 460 ML).

Applications

- GEL ELECTROPHORESIS

Specifications

- OPERATING TEMPERATURE IS 4°C TO 40°C

Electrophoresis

INVITROGEN
Mini Gell Tank

The Mini Gel Tank is compatible with a variety of Novex® mini gels, NuPAGE® mini gels, and Bolt® Bis-Tris Plus gels. Each Mini Gel Tank can accommodate up to two gels per run. The unique tank design enables convenient side-by-side gel loading and enhanced viewing during use. Optimized conditions using constant voltage allow for Bolt® Bis-Tris Plus gels to be run in approximately 35 minutes. Run times may vary depending on buffer conditions and power supplies being used.

Unique Features

THE MINI GEL TANK IS VERSATILE AND COMPATIBLE WITH THE SURECAST GEL HANDCAST SYSTEM, NUPAGE, BOLT OR NOVEX MINI GELS. THE UNIQUE TANK DESIGN ENABLES CONVENIENT SIDE-BY-SIDE GEL LOADING AND ENHANCED VIEWING DURING USE.

Applications

- GEL ELECTROPHORESIS

Specifications

- CAPACITY: 2 GELS PER RUN

FLUOROMETER

INVITROGEN

QUBIT 4

APPLICATIONS

DNA QUANTIFICATION
RNA QUANTIFICATION
PROTEIN QUANTIFICATION
FLUORESCENCE

Fluorometer

INVITROGEN *Qubit 4 Fluorometer*

The Invitrogen Qubit 4 Fluorometer is the next generation of the popular benchtop fluorometer designed to accurately measure DNA, RNA, and protein quantity. The new Qubit 4 also easily measures RNA integrity and quality. The easy-to-use touch screen menus make it easy to select and run the assays you need, with results displayed in just a few seconds.

Unique Features

- MORE SENSITIVE THAN UV ABSORBANCE-BASED
- ACCURATELY QUANTIFIES DNA, RNA, AND PROTEIN
- FAST, RELIABLE DETECTION OF DEGRADED RNA
- NEW INTEGRATED REAGENT CALCULATOR
- USES AS LITTLE AS 1 ML OF SAMPLE
- WI-FI, USB DRIVE, OR DIRECT CONNECTION

Applications

- DNA QUANTIFICATION
- RNA QUANTIFICATION
- PROTEIN QUANTIFICATION
- FLUORESCENCE

Specifications

- WEIGHT 743 G
- DYNAMIC RANGE 5 ORDERS OF MAGNITUDE
- PROCESSING TIME ⩽5 SECONDS/SAMPLE
- LIGHT SOURCES BLUE LED (MAX ~470 NM)
- RED LED (MAX ~635 NM)
- EXCITATION FILTERS BLUE 430-495 NM
- RED 600-645 NM
- EMISSION FILTERS GREEN 510-580 NM
- RED 665-720 NM
- WARM-UP TIME <35 SECONDS
- USB DRIVE 4 GB

CELL COUNTERS

CHEMOMETEC

NC-200

INVITROGEN

COUNTESS II FL

PROCESSING TIME

<50 seconds

CELL CONCENTRATION RANGE

5 X 10^4 TO 5 X 10^6 CELLS/ML.

PROCESSING TIME

10 seconds

CELL CONCENTRATION RANGE

1 x 10^4 TO 1 x 10^7 cells/mL

Cell Counter

CHEMOMETEC *NC-200*

The NucleoCounter® NC-200™ is a high precision automated cell counter utilizing state-of-the-art image cytometry. The Via1-Cassette™ used for automated staining and sample handling is volume calibrated to ensure high precision and reproducibility. With user adaptable protocols and specialized assays for aggregated cells and cells on microcarriers, the Automated Cell Counter NucleoCounter® NC-200™ provides an all-in-one solution for cell counting and cell viability determinations.

Unique Features

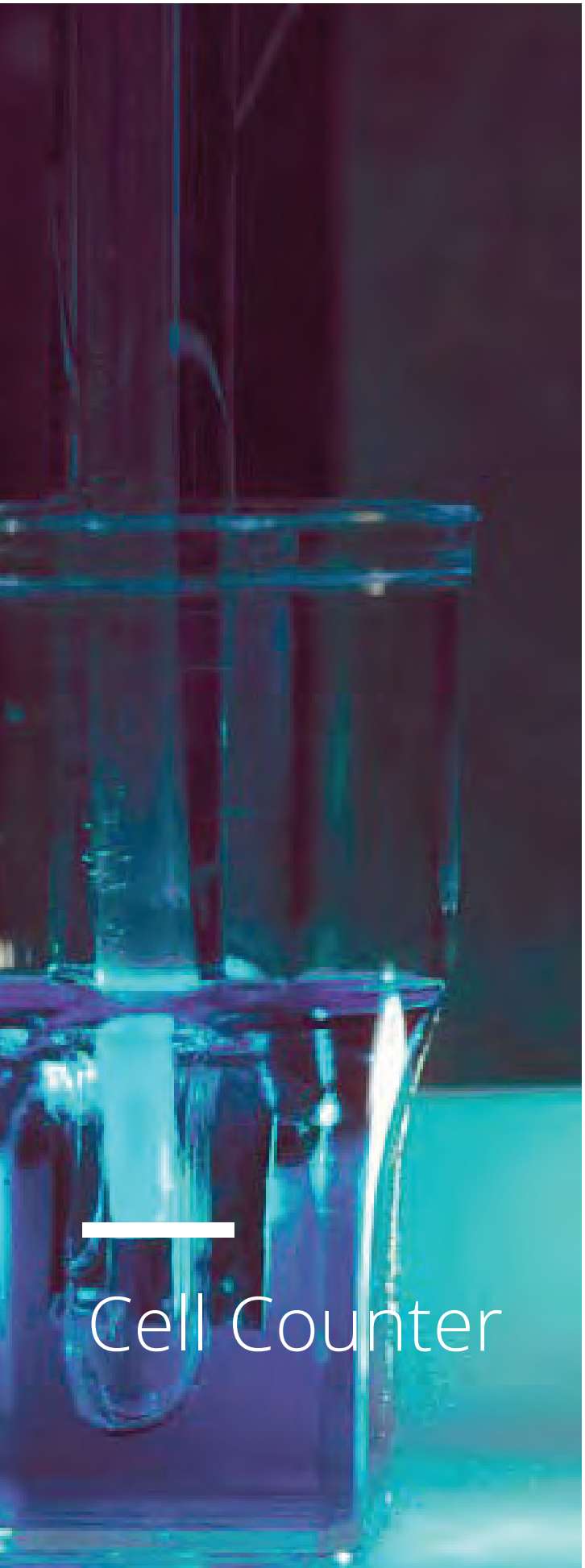
- AUTOMATED CELL COUNTING
- GMP AND 21 CFR PART 11 READY
- NO CALIBRATION, NO MAINTENANCE
- ELIMINATES HUMAN ERRORS
- UNLIMITED SOFTWARE LICENSES

Applications

- PRECISE CELL COUNTING FOR:
- AGGREGATED CELLS
- CAR-T CELLS
- ADIPOSE DERIVED STEM CELLS
- CELLS ON MICROCARRIERS

Specifications

- MEASUREMENT VOLUME 1.4 ML IN CHAMBER
- ANALYSIS TIME 50 SECONDS (ONE STEP)
- OPTIMAL RANGE 5 X 10^4 TO 5 X 10^6 CELLS/ML.



Cell Counter

INVITROGEN
Countess II FL

The new Countess™ II FL Automated Cell Counter is a benchtop assay platform equipped with state-of-the-art optics, full autofocus, and image analysis software for rapid assessment of cells in suspension. With three-channel flexibility—brightfield and two optional fluorescence channels—researchers can count cells, monitor fluorescent protein expression, evaluate apoptosis, and measure cell viability.

Unique Features

- ACCURATE—ELIMINATE THE SUBJECTIVITY OF MANUAL CELL COUNTING AND USER-TO-USER VARIABILITY
- FLEXIBLE—ACCEPT UP TO TWO EVOS® LIGHT CUBES THAT ARE USER-SELECTABLE FROM OVER TWENTY FLUORESCENCE CHANNELS
- FAST—TOTAL CELL COUNT, REPORTS VIABILITY, AND MEASURES AVERAGE CELL SIZE
- CONVENIENT—NO CLEANING OR ROUTINE MAINTENANCE

Applications

- CELL COUNTING
- VIABILITY ANALYSIS

Specifications

- CELL SIZE: 4-60 MM
- CONCENTRATION: 1X10^4-1X10^7 CELLS/ML
- DETECTION METHOD: BRIGHTFIELD AND FL
- FIELD: 2.15 MM X 1.62 MM (3.48 MM2)

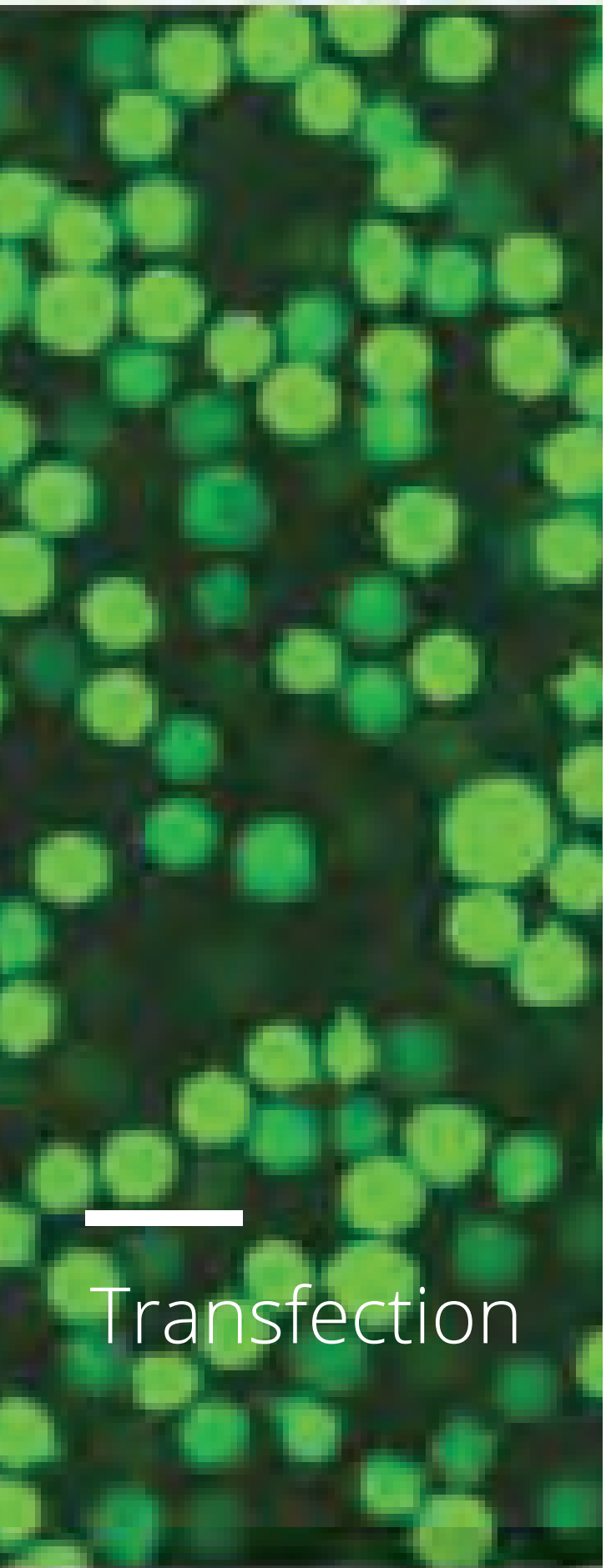
TRANSFECTION

INVITROGEN

NEON TRANSFECTION SYSTEM

COMPATIBLE CELLS

ESTABLISHED CELL LINES
HARD-TO-TRANSFECT CELLS
PRIMARY CELLS
STEM CELLS



Transfection

INVITROGEN
Neon Transfection System

The Neon Transfection System offers an innovative electroporation transfection method that utilizes a proprietary biologically compatible pipette tip chamber to generate a more uniform electric field for a significant increase in transfection efficiency and cell viability.

Unique Features

- EFFICIENCY—UP TO 90% TRANSFECTION
- FLEXIBILITY—OPEN SYSTEM
- SIMPLICITY—SINGLE REAGENT KIT FOR ALL CELL TYPES.
- VERSATILITY—DELIVER DNA, RNA AND PROTEIN

Applications

- TRANSFECTION OF:
- ESTABLISHED CELL LINES
- HARD-TO-TRANSFECT CELLS
- PRIMARY CELLS
- STEM CELLS

Specifications

- REACTION TIME: 1 SEC
- SAMPLE LOADING VOLUME: DEPENDS ON KIT USED
- SAMPLE TYPE: PLASMID DNA, SYNTHETIC SIRNA
- SERUM COMPATIBLE: YES
- SHIPPING CONDITION: ROOM TEMPERATURE
- STARTING MATERIAL (CELL #): 2X10^4 - 6 X10^8 CELLS

VACUUM

THERMO
SCIENTIFIC
SPEEDVAC
SPD210

APPLICATIONS

SOLVENT EXTRACTION
GENOMICS
DRUG DISCOVERY
PROTEOMICS
CHROMATOGRAPHY

Vacuum

THERMO SCIENTIFIC *SpeedVac SPD210*

High capacity modular systems can accommodate a large number of samples in a wide variety of formats. These systems offer the flexibility of working with 26 different rotors, including rotor blocks, to fit a variety of sample formats such as microcentrifuge tubes, vials, microwell plates and flasks for your application needs.

Unique Features

THESE SYSTEMS OFFER THE FLEXIBILITY OF WORKING WITH 26 DIFFERENT ROTORS, INCLUDING ROTOR BLOCKS, TO FIT A VARIETY OF SAMPLE FORMATS SUCH AS MICROCENTRIFUGE TUBES, VIALS, MICROWELL PLATES AND FLASKS FOR YOUR APPLICATION NEEDS.

Applications

- SOLVENT EXTRACTION
- GENOMICS
- DRUG DISCOVERY
- PROTEOMICS,
- CHROMATOGRAPHY

Specifications

- CAPACITY: 200 X 1.5ML; 8 FLASKS; 8 DEEP-WELL PLATES
- COMPONENTS: OIL FREE PUMP, -50°C COLD TRAP

STERILIZER

WARD'S

BACTISTERILIZER

PHC

MLS AUTOCLAVE

MAXIMUM TEMPERATURE

815˚C

MAXIMUM TEMPERATURE

135˚C

STERILIZATION TIME

5 to 7 seconds

STERILIZATION TIME

1 min to 5 hours

WARD'S *Infrared Microsterilizer* Sterilizer

The Ward's Infrared Micro-Sterilizer has an asbestos-free core element that uses infrared heating to produce 815°C (1500°F). It completely sterilizes microorganisms in 5-7 seconds. The Ward's Infrared Micro-Sterilizer uses well-proven technology to provide instant sterilization of platinum inoculating loops, needles, glass tubes/pipette mouths and various metal & borosilicate glass instruments

Unique Features

- COMPLETE STERILIZATION IN 5 TO 7 SECONDS
- SAFE, CONVENIENT AND NO SPATTER
- IDEAL FOR PLATINUM LOOPS, NEEDLES AND TUBE MOUTHS
- MAXIMUM TEMPERATURE 815°C / 1500°F

Applications

- STERILIZATION

Specifications

- COMPLETE STERILIZATION IN 5 TO 7 SECONDS
- 115 V
- MAXIMUM TEMPERATURE 815°C / 1500°F

Sterilizer

PHC
MLS Autoclave

A lab sterilizer is essential to good laboratory practice, particularly in biotechnology, pharmaceutical and clinical laboratories. Of all sterilization methods, high pressure steam (autoclave) is the most widely used because of its efficacy, speed and reliability. The PHCbi MLS Series portable top-loading autoclave provides a safe, reliable high-pressure steam sterilizing environment within a self-contained unit that is easy to use. These reliable, energy saving autoclaves are ideal for a wide range of applications.

Unique Features

- ERGONOMIC DESIGN – PORTABLE AND FREESTANDING
- MICROPROCESSOR CONTROL
- PROGRAMMABLE

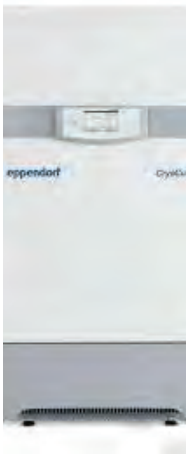
Applications

- STERILIZATION

Specifications

- EFFECTIVE CAPACITY 2.65 CU.FT. (75 L)
- STERILIZATION TEMPERATURE RANGE 115°C – 135°C
- CULTURE MEDIUM MELTING TEMPERATURE 60°C – 114°C
- KEEP WARM TEMPERATURE RANGE 60°C TO 114°C
- PRESSURE GAUGE RANGE 0.1 – 0.4 MPA
- MAX TEMPERATURE 135°C
- PROGRAM TIMER 1 MIN TO 5 HOURS/ KEEP WARM – 72°C
- STERILIZATION TIMER 1 MINUTE TO 5 HOURS
- MELTING TIMER RANGE 1 MINUTE TO 5 HOURS

REFRIGERATORS/FREEZERS



FISHERBRAND	THERMO SCIENTIFIC	THERMO SCIENTIFIC	THERMO SCIENTIFIC	THERMO SCIENTIFIC	EPPENDORF	PHC	THERMO SCIENTIFIC
ISOTEMP UNDER-COUNTER FRIDGE	*ISOTEMP CHROM-ATOGRAPHY FRIDGE*	*TSX SERIES ULTRA-LOW FREEZER*	*FORMA PHARMACY FRIDGE*	*REVCO FMS FRIDGE*	*CRYOCUBE F740*	*PR SERIES UNDER-COUNTER FRIDGE*	*LOCATOR 6 PLUS*

TEMPERATURE RANGE

-24 TO 12˚C	2 TO 10˚C	-90 TO -70˚C	1 TO 8˚C	1 TO 8˚C	-86 TO -50˚C	1 TO 14˚C	-180˚C

Fridge

FISHERBRAND *Isotemp Undercounter Fridge*

For safe, reliable storage of non-critical products.
Convenient storage in small spaces

Unique Features

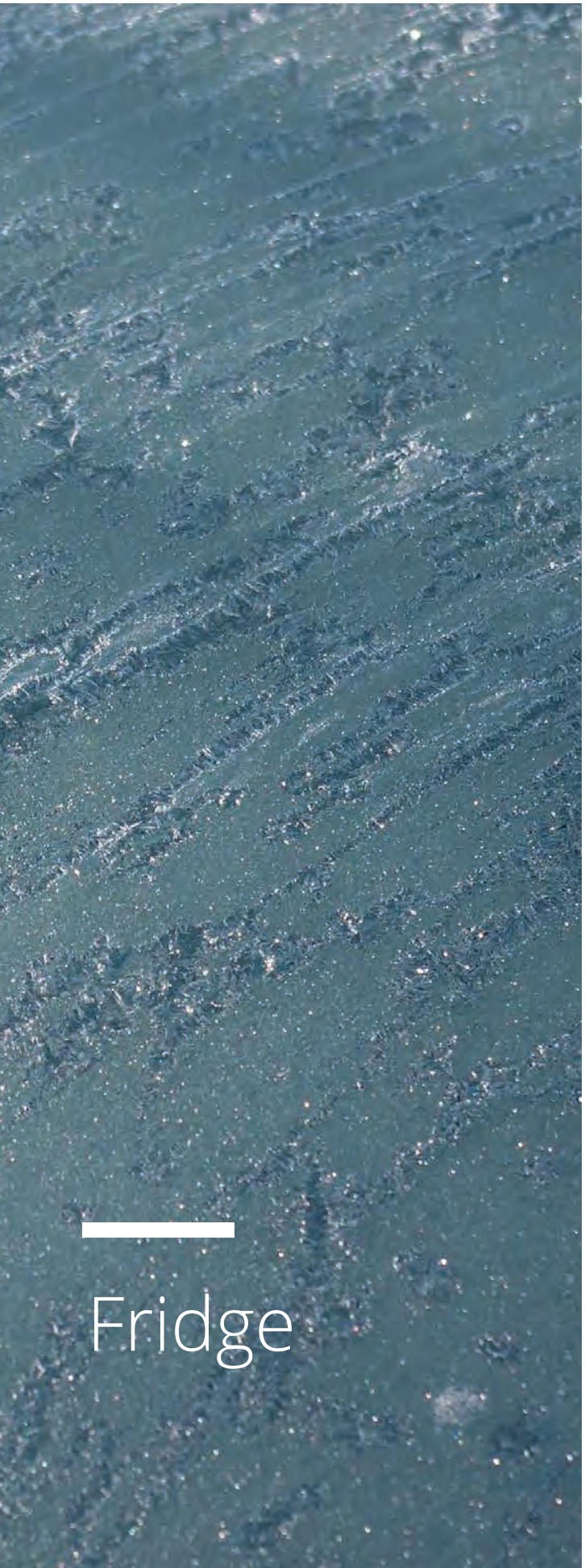
- MANUAL DEFROST
- R-134A CFC-FREE REFRIGERANT
- HYDRAULIC THERMOSTAT
- BAKED-ON, ACRYLIC ENAMEL EXTERIOR
- EASY-TO-CLEAN FORMED INTERIOR
- SOLID DOOR IS MOUNTED TO OPEN FROM LEFT

Applications

- REFRIGERATION (UNDERCOUNTER)

Specifications

- TEMPERATURE RANGE -12° TO -24° C
- VOLTAGE 115V
- ELECTRICAL REQUIREMENTS 115 V/60 HZ
- WEIGHT (ENGLISH) 84 LB.
- WATTAGE 184W
- AMPERAGE 1.6A
- COMPRESSOR BOTTOM MOUNTED
- INSULATION POLYURETHANE FOAM
- REFRIGERANT R134A, 100% CFC FREE



THERMO SCIENTIFIC *Isotemp Chromatography Fridge*

Ideal for the demanding requirements of daily use in research, clinical, and industrial laboratories storing non-critical products such as reagents, media, and proteins. Fisherbrand™ Isotemp™ Chromatography Refrigerators for General Purpose Use are designed with your needs in mind.

Unique Features

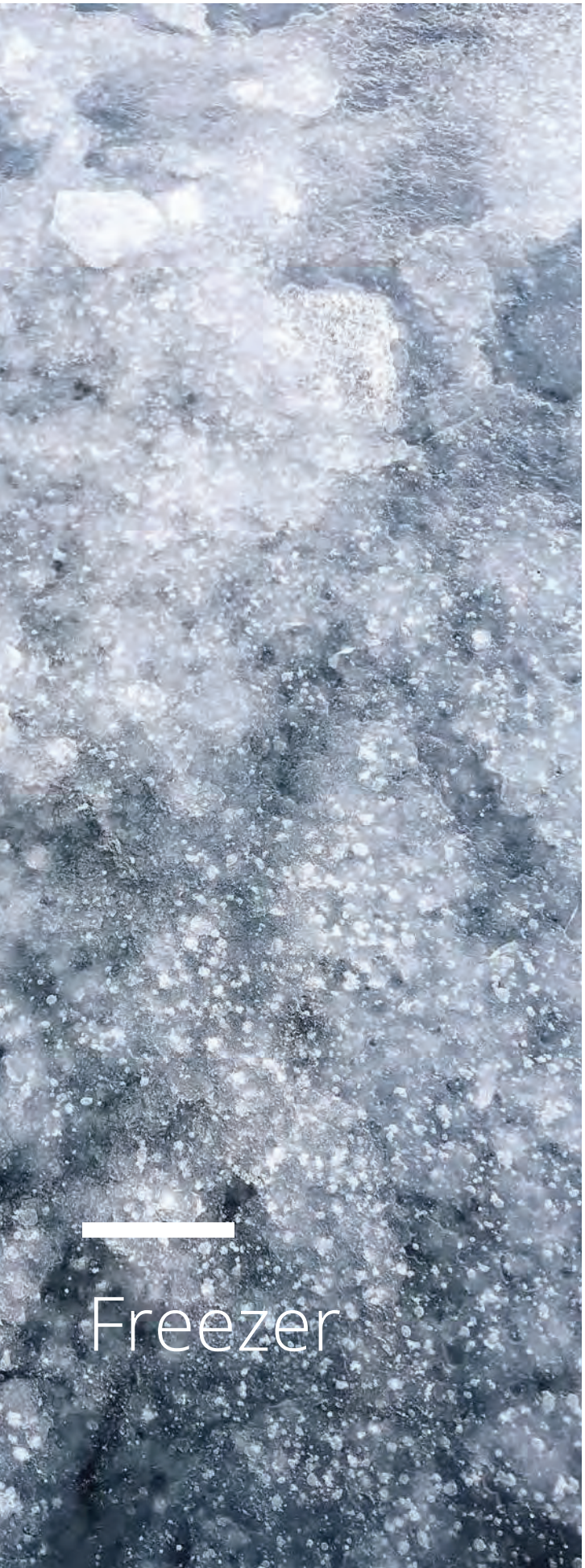
- HYDROCARBON SAFETY SENSOR
- WHISPER-QUIET OPERATION
- ENERGY STAR CERTIFIED
- TEMPERATURE, DOOR AJAR, AND POWER FAILURE ALARMS
- GREEN, NATURAL REFRIGERANTS
- ADAPTIVE DEFROST
- GLASS (DOUBLE PANE)
- DIGITAL CONTROLLER
- REAR ACCESS PORT
- REMOTE ALARM CONTACTS
- KEYED DOOR LOCK(S)
- LED INTERIOR LIGHTING
- LOW HEAT OUTPUT

Applications

- REFRIGERATION

Specifications

- ACCESS SECURITY KEY LOCK
- CONTROL MICROPROCESSOR
- TEMPERATURE RANGE 2°C TO 10°C
- ELECTRICAL REQUIREMENTS 115 V/60 HZ
- REFRIGERANT R290



THERMO SCIENTIFIC *TSX Series Ultra-Low Freezer*

Thermo Scientific™ TSX Series ultra-low freezers are designed to meet the highest sustainability, temperature management and reliability standards fo -80°C and -70°C storage.

Unique Features

- WIRELESS MONITORING
- CRYOBOXES AND RACKS INCLUDED
- LED SCREEN DISPLAY
- CLOUD CAPABILITY

Applications

- FREEZER
- CRYOPRESERVATION

Specifications

- SMART VIEW COMPATIBILITY SMART-VUE COMPATIBLE
- DEFROST MANUAL
- DEPTH (METRIC) EXTERIOR 95.5CM
- TEMPERATURE -80 DEGREES CELCIUS

REVCO

Forma Pharmacy Fridge

Store and retrieve pharmacy products with ease, utilizing Thermo Scientific™ Forma™ Pharmacy Refrigerators. Developed for stable temperature control over a range of 1° to 8°C, refrigerators feature microprocessor control, positive airflow systems, industrial-quality cabinet construction, extra-strength refrigeration compressors and full-extension stainless-steel roll-out drawers.

Unique Features

- TEMPERATURE ADJUSTABLE FROM 1° TO 8°C
- ICON-BASED CONTROLS, DISPLAYS AND GRAPHICS
- SECURITY SETPOINT KEY-OPERATED
- AUDIBLE/VISUAL WARNINGS
- BATTERY BACKUP FOR CONTROL
- ALARM SILENCE AND RINGBACK

Applications

- REFRIGERATION

Specifications

- DRAWERS 5
- REFRIGERANT CFC-FREE
- TEMPERATURE CONTROL MICROPROCESSOR
- DOOR STYLE GLASS
- TEMPERATURE RANGE 1° TO 8°C

REVCO

FMS High-Performance Fridge

Protect flammable materials, solvents and intermediates using high-performance Thermo Scientific™ Forma™ FMS High-Performance Lab Refrigerators. Designed to meet stringent U.S. Pharmacopeia standards for drug storage and NFPA safety provisions for storing flammable liquids.† These refrigerators are designed to maintain a safe environment while keeping valuable samples within a tight temperature range. Each is listed by UL as a special purpose refrigerator intended for flammable material storage in accordance with NFPA 45, 70 and 99.† 45, 70 and 99.†

Unique Features

- EASY TO USE INTUITIVE DIGITAL DISPLAY F
- LOCKABLE DOORS, AUDIO AND VISUAL ALARMS
- CONVENIENT ACCESS PORT AND CASTERS
- OUTSTANDING CONSTRUCTION
- IGNITION-FREE INTERIOR CABINET DESIGN
- MEETS SAFETY STANDARDS
- MANUAL DEFROST

Applications

- REFRIGERATION

Specifications

- CAPACITY (METRIC) 651L
- TEMPERATURE RANGE 1° TO 8°C
- DOORS 1

Freezer

EPPENDORF

CryoCube F740 Series

The Eppendorf CryoCube® F740 series is the latest addition to the Eppendorf Freezer family. Combining the high-quality tradition of our previous freezers with an increased capacity, the CryoCube F740 is designed to store more of your samples securely while maintaining optimal energy usage. The integration of the PhysioCare Concept®during development means that the CryoCube F740 is easier and more comfortable to use, supports an ergonomic workspace, and enables an optimal workflow in the lab

Unique Features

- TRADITIONALLY FOAMED POLYURETHANE INSULATION
- QUICK PULL-DOWN AND RECOVERY TIMES
- FLUSH MOUNTED CONTROL PANEL AND ALARM STATUS
- INNER DOORS ARE INSULATED AND SEALED
- SPECIAL LOW-TEMPERATURE OUTER DOOR SEALS
- FULL STAINLESS STEEL INTERIOR FOR EASY CLEANING

Applications

- FREEZING
- CRYOPRESERVATION

Specifications

- TEMPERATURE RANGE -50 °C TO -86 °C
- CAPACITY 740 L
- MAX. RACKS PER FREEZER 30

PHC

PR Series Undercounter Refrigerator

The PR Series Undercounter Laboratory Refrigerators from PHC (formerly Panasonic Healthcare) are ideal for the demanding standards of laboratory applications that need a precise and uniform temperature environment. The PR-L5111W-PA features state-of-the-art compressor technology and an adjustable thermostat for approximate temperature performance range of +1°C to +14°C. This 4.9 cubic foot refrigerator is optimized with a compact, space-saving design allowing for easy, convenient placement on a countertop or underneath of a counter/bench (see specifications below for clearance requirements). The PR Series Undercounter Refrigerators have all the right features for laboratory applications that need +4°C refrigeration or have free standing applications.

Unique Features

- EASY MAINTENANCE
- TEMPERATURE UNIFORMITY
- SPACE-SAVING DESIGN

Applications

- REFRIGERATION

Specifications

- TEMPERATURE RANGE 1°C TO 14°C
- SHELVES 3

Cryo Storage

THERMO SCIENTIFIC

Locator™ 6 Plus Cryostorage Tank

Compact design minimizes space requirements while maximizing storage capacity. Suited for both manual and computerized inventory record-keeping methods.

Unique Features

- OUTSTANDING TEMPERATURE UNIFORMITY
- AUDIBLE ALARM SOUNDS W
- ADVANCED VACUUM INSULATION
- SECURE LOCKING HASP PREVENTS UNAUTHORIZED ENTRY

Applications

- CRYOPRESERVATION

Specifications

- CAPACITY (METRIC) 121L
- TEMPERATURE -180°C

FREEZE DRYER

LABCONCO
FREEZONE
FREEZE
DRYER

MAXIMUM TEMPERATURE

-50˚C

LABCONCO

FreeZone 2.5L Freeze Dryer

FreeZone 2.5 Liter Benchtop Freeze Dryers are designed for lyophilizing light sample loads. The compact design is ideal for labs with limited floor space. Collectors are available to -50° C or -84° C.

Unique Features

- STAY CLOSE TO YOUR SAMPLES AS LYO-WORKS™
- CONSISTENT, HIGH QUALITY RESULTS
- CHALLENGING SAMPLES ARE EASY
- END-ZONE™ END POINT DETECTION

Applications

- FREEZE DRY SAMPLES

Specifications

- CAPACITY (METRIC) 2.5L
- TEMPERATURE -50°C

INCUBATORS

PHC

CELL-IQ SERIES CO2 INCUBATOR

THERMO SCIENTIFIC

MAXQ 4450 TABLETOP INCUBATOR

NOR-LAKE SCIENTIFIC

UNDERCOUNTER BOD REFRIGERATED INCUBATOR

TEMPERATURE RANGE

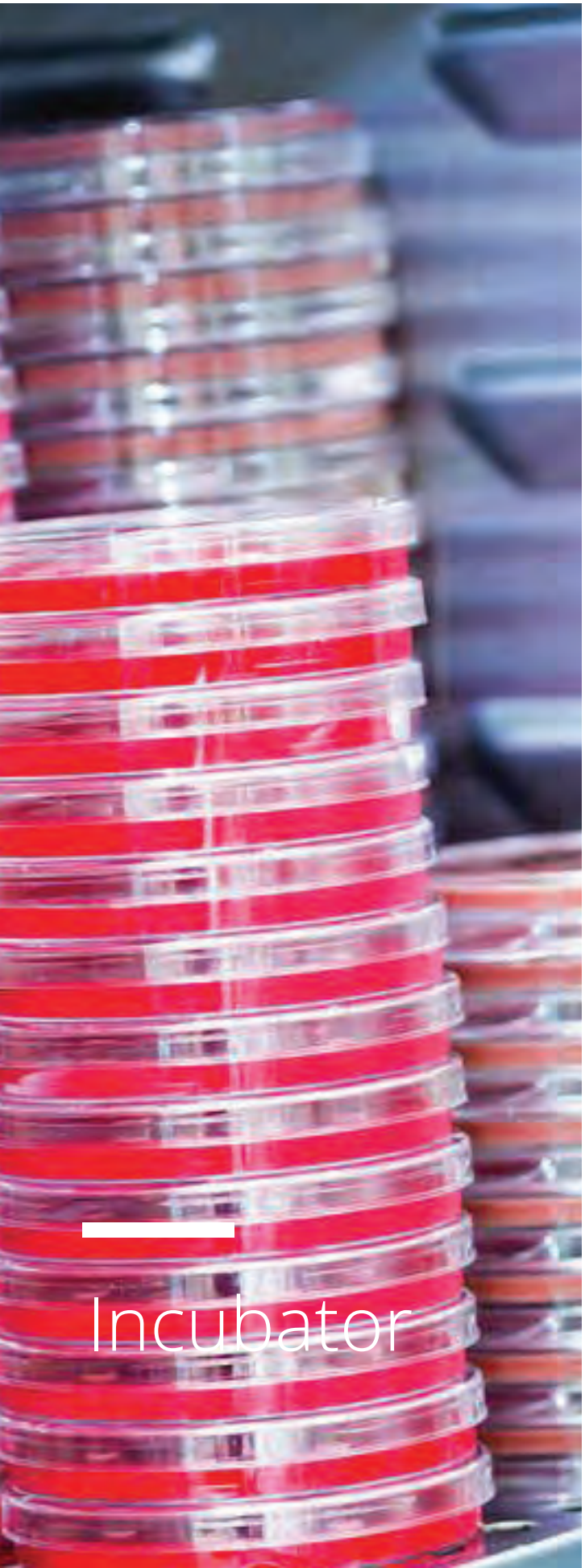
5 TO 50°C

TEMPERATURE RANGE

20 TO 80°C

TEMPERATURE RANGE

5 TO 50°C



Incubator

PHC

Cell-IQ Series CO2 Incubator

Enhance the production yield of your cell culture experiments with PHCbi's large capacity CO2 incubator. Part of the Cell-IQ CO2 series, the MCO-230AICUVL-PA is the ideal high throughput cell culture incubator for culturing or protocols that may require the use of an experimental apparatus.The MCO-230AICUVL-PA Cell-IQ™ Series 8.1 cu.ft. CO2 Incubator for Cell Culture contains the patented Direct Heat and Air Jacket system to provide precise temperature and CO2 levels, time-saving decontamination, and an intuitive control panel interface for easy programming.

Unique Features

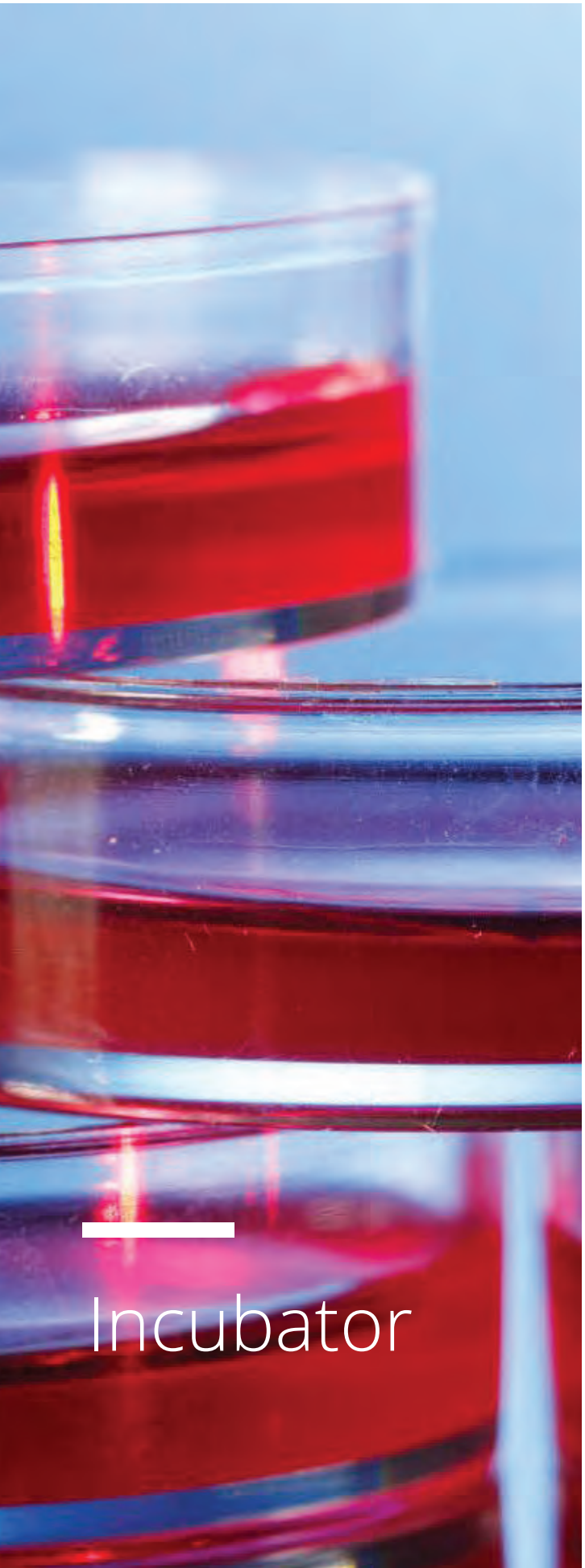
- RAPID CO2 RECOVERY WITH IR2 SENSOR
- TIME SAVING DECONTAMINATION
- CONTAMINATION CONTROL

Applications

- CELL GROWTH

Specifications

- TEMPERATURE CONTROL RANGE +5°C TO 50°C
- TEMPERATURE UNIFORMITY ±0.25°C (AMBIENT TEMPERATURE: 23°C, SETTING: 37°C, CO2: 5 %
- CO2 CONTROL RANGE 0% TO 20%
- CO2 CONTROLLER PID CONTROL SYSTEM
- CO2 GAS CONNECTION 0.157 INCH TO 0.36 INCH
- CO2 VARIATION ±0.15% (AMBIENT TEMPERATURE: 23°C, SETTING: 37°C, CO2: 5%, NO LOAD)



Incubator

THERMO SCIENTIFIC *MaxQ 4450 Tabletop Incubator*

Combine incubated and refrigerated temperatures with a small footprint by using these affordably-priced, orbital shakers, ideal for incubating a small number of vessels.

Unique Features

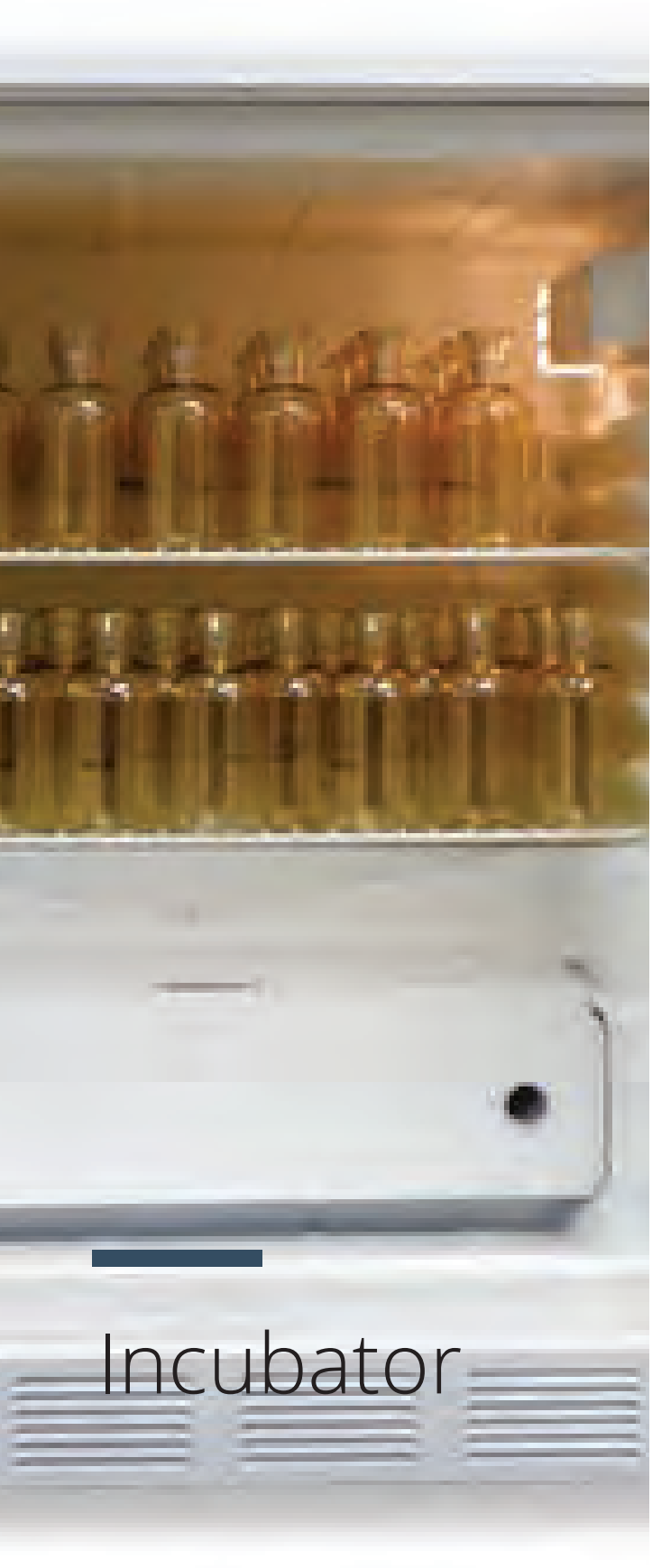
- CLEAR, SCRATCH-RESISTANT LID A
- CHAMBER HOLDS FOUR 1L FLASKS
- CHOOSE FROM TWO TEMPERATURE RANGES
- MONITOR AND CONTROL CHAMBER TEMPERATURE RANGE
- TRIPLE ECCENTRIC DRIVE HANDLES HEAVY LOADS
- OVERTEMPERATURE SAFETY FEATURE
- INTERLOCK STOPS PLATFORM WHEN LID IS OPENED

Applications

- CELL CULTURE
- SOLUBILITY STUDIES
- EXTRACTION PROCEDURES
- PLASMID PURIFICATION
- GENERAL MIXING
- BACTERIAL SUSPENSIONS
- STAINING AND DESTAINING
- WASHING PROCEDURES
- HYBRIDIZATIONS
- PROTEIN EXPRESSION IN BACTERIA

Specifications

- CONTINUOUS AND TIMED 0.1 HOUR UP TO 999 HOURS
- TEMPERATURE 20° TO 80°C
- VARIABLE SPEED CONTROL FROM 15 TO 500RPM



Incubator

NOR-LAKE SCIENTIFIC

Undercounter BOD Refrigerated Incubator

Refrigerated Incubators, often called B.O.D Incubators or Low Temperature Incubators, are commonly used for applications such as B.O.D. Determinations, among many others.

Unique Features

- 2 LEVELS OF USER PASSWORD PROTECTION (SET POINTS AND PARAMETERS)
- 4 DIGIT LED DISPLAY WITH 8 BUTTON INTERFACE
- CONTINUOUS PRODUCT TEMPERATURE HI/LO ALARMS, AUDIBLE AND VISUAL
- OPERATING TEMPERATURE: +5°C TO +50°C
- PROGRAMMABLE LOGIC MICROPROCESSOR
- STORE UP TO (71) 300 ML BOD BOTTLES

Applications

- PLANT CELL GROWTH
- FERMENTATION STUDIES
- BACTERIAL CULTURING
- MYCOLOGY STUDIES.

Specifications

- OPERATING TEMPERATURE: +5°C TO +50°C
- PROGRAMMABLE LOGIC MICROPROCESSOR
- 4 DIGIT LED DISPLAY WITH 8 BUTTON INTERFACE
- CONTINUOUS PRODUCT TEMPERATURE HI/LO ALARMS, AUDIBLE AND VISUAL
- 2 LEVELS OF USER PASSWORD PROTECTION (SET POINTS AND PARAMETERS)
- INTEGRATED HI/LO ALARM TESTS
- PROPORTIONAL CONTROL AND CAPACITY OUTPUT
- AUTO DEFROST
- KEY LOCK DOOR (2 KEYS)

SYRINGE PUMP

FISHERBRAND
SINGLE
SYRINGE
PUMP

FLOW RATE

519mL/Hour

FLOW RATE ACCURACY

±<1%

CAPACITY

10µL to 60mL

Syringe Pump

FISHERBRAND

Single Syringe Pump

Easy-to-use, economical pump combines precise flow with exceptional durability

Unique Features

- DISPENSING VOLUME: 10ML TO 60ML
- WIDE FLOW RANGE UP TO 519ML/HOUR
- HIGH-VISIBILITY BACKLIT LCD
- AUTO SHUTOFF VOLUME DISPENSE MODE
- FAST SETUP WITH BUILT-IN SYRINGE SIZE TABLE
- RAPID ADJUSTMENTS; FAST FORWARD/REVERSE
- STALL INDICATOR AND POWER FAILURE INDICATOR
- QUICK-RELEASE DRIVE NUT
- GUIDE ROD CLAMP PREVENTS SYRINGE DAMAGE
- DURABLE HOUSING WITH WELDED SEAMS

Applications

- CALIBRATING,
- DILUTING,
- DISPENSING,
- DOSING,
- EMULSIFYING,
- FLUID TRANSFER,
- INFUSIONS

Specifications

- DISPLAY TYPE BACKLIT LCD
- NUMBER OF CHANNELS 1.0
- FLOW RATE 519ML/HOUR
- LINEAR FORCE (METRIC) 9KG
- REPRODUCIBILITY ±0.1%
- CAPACITY (METRIC) 10ML TO 60ML