Endless possibilities...



begin here...

PRODUCT

CATALOG

Serving Industry Since 1967



"Constantly challenging the status quo and pushing boundaries leads to transformative growth."

ANM Aliance

ANM Alliance is a virtual repository of technology and an ideal knowledge partner providing quality solutions from Simulation to Site.

Corporation

Our domain of expertise spans from the Laboratory to the Process industry as we offer exemplary solutions that encompass the varied needs in the Simulation to Site spectrum.

ANM Alliance comprises of lucrative SBUs derived through Team efforts of more than 100 colleagues working together.

ANM Alliance strategizes host of initiatives which include integrated backup services for the entire Team, warehousing site along with virtual warehousing, ERP and CRM.

We continually leverage technology in order to remain a lean and proactive Organization to endorse enhanced Customer service and satisfaction. Our nationwide network presence ensures prompt services to our Customers.

Many of ANM Alliance's achievements today are a result of foresight, the ability to forecast Customer requirement and being on hand with already technological solution.

ANM Alliance Group owes its development to the visionary Founder, Late **Shri Arvind N. Mehta** – a man of simple living and high thinking, who set the course which the Group is following, to this day.

We continuously strive to become a responsible corporate citizen contributing significantly to the scientific, industrial and economic advancement of the Country.









Since 196.

What's **NEW**

Cell Analysis with Ampha X30

Pollen Cell Analysis with the Ampha Z40



The novel Ampha X30 opens a new era of cell analysis: simultaneous measurement of cell count and cell viability, and in addition more information about the status of the cells, like metabolic activity. Based on Impedance Flow Cytometry, no dyes, no markers, and no incubation are required. Results are available after minutes – including sample preparation! With one instrument and four different chip sizes of the microfluidic chip the whole range of cells can be measured: bacteria, human and animal cells, algae, yeast, and others like somatic cells in milk.

With the Ampha X30 all cell types can be analyzed with one instrument, using chips with different channel diameters. The cells are not harmed by the measurement and due to the absence of dyes and markers, the cells can be recovered and reused, e.g., for sorting or tissue culture.

Air Jet Sieve Machine e200 LS

An air jet with plenty of power



The NEXOPART e200 LS air jet sieve machine supports you reliably when it comes to separating fine powders. The quiet, fast and efficient device helps to prevent the agglomeration of powders and clogging of the test sieve.

The e200 LS air jet sieve machine is ideal for separating, fractionating and particle size analysis of powders in various industries:

Minerals

Since 1967

- Chemicals production
- Pharmaceuticals through compliance with 21 CFR Part 11
- Food and nutrition industry
- Cement and construction material applications



The Ampha Z40 is a new high-end laboratory instrument for pollen analysis. It covers all needs for efficient pollen analysis from plant breeding to seed production. An innovative technological platform ensures accurate analysis of pollen viability and pollen concentration in just one measurement.

Ampha Z40 - Pollen Analyzer for the analysis of pollen quality for:

- Increased yield in seed production
- Increased reliability in seed production
- Lower seed production costs

Knowledge about the performance of your genetics gives you the possibility to identify the best pollinator lines in an early stage, breed for higher heat resistance and optimize female to male ratios.

Raft tests using LAMY TX700

Texture Analyzer

LAMY TX700 Texture Analyzer are used to determine the strength and durability of alginate raftforming oral suspensions, providing insights into their efficacy and consistency, especially in accordance with standards like the British Pharmacopoeia.

Pharmaceutical formulations, a raft test evaluates the ability of a gel-forming product, like an alginate suspension, to form a stable, floating raft in an acidic environment, which is meant to mimic the stomach. LAMY TX700 Texture analyzers are used to measure the resistance of the raft to rupture or deformation, providing a quantitative measure of the raft's mechanical properties.



LAMY RHEOLOGY

The test helps ensure that the raft formulation is consistent and meets quality standards. For Product Development, the results can be used to optimize the formulation and ensure the product is effective in preventing reflux.

LAMY TX700 Texture analyzers can also be used to assess the texture of other pharmaceutical products like tablets, gels, and creams.

What's **NEW**

AmketteAnalytics

NEW CLIMATE CHAMBERS



Cooling incubators and constant climate chambers featuring modular equipment options and supporting new areas of application.

The KB, KB PRO, KBF, and KBF PRO product lines have been completely overhauled and refined. Covering a wide range of applications, they are ideal for use in microbiology as well as in pharmaceutical quality assurance. The new PRO units add solutions for freeze-thaw stability testing, photostability testing, battery testing, and plant growth to the range of applications.

The modular equipment options are central elements of the new unit series. Taking a series product as a base unit, customers can build their own completely customized climate chamber or refrigerated incubator in accordance with the modular principle.

New! EQ series EQuivalent Long Life D2 Lamps

for HPLC Detectors (VWD/UV, PDA/DAD) such as Agilent, Shimadzu, Thermo-Dionex, Waters.



- Optimum performance by unique design
- Higher initial intensity
- Higher S/N
- Superior signal stability and shorter stabilization time after ignition
- Improved package design for safe transportation and storage
- Long-Life deuterium lamps are guaranteed to have a life time greater than 2,000 hours
- For long-lasting, trouble-free chromatographic performance
- Consistent operation and long-term value
- Designed to provide optimal intensity, sensitivity, and stability
- Built to meet highest-quality standards
- Rigorously tested for best lamp-to-lamp consistency
- Robust and long-lasting to lower your cost of ownership

PHOTOSTABILITY TESTING AND PLANT GROWTH



BINDER's latest generation cooling incubators and constant climate chambers can be transformed into photostability test chambers and plant growth chambers in no time at all thanks to the new ICH light modules and LED plant light modules, which can be installed quickly and easily without using tools.

PREMIUM BIOMEDICAL -30° C FREEZERS



The PREMIUM Biomedical freezers are designed and manufactured with the latest technology. The body of the freezers is built with thickness of 70mm to maximize the temperature stability in the freezers.

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🕀 SHIMADZU

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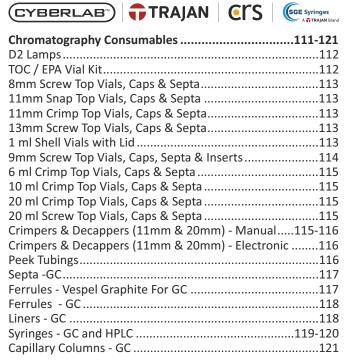
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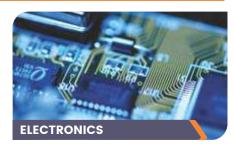


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WATER TREATMENT



CHEMICALS









POLLUTION CONTROL













For more information • Email: info@anmalliance.com • Tel.: 91-22-6614 1500



Electronic Balances



 $\begin{pmatrix} 1 \end{pmatrix}$

SEMI-MICRO & ANALYTICAL BALANCE



🕀 SHIMADZU

Excellence in Science

AP-WD SERIES

Advanced Performance UniBloc Semi-micro Balances provide High-Speed Response and Stability. Available in super range and dual range.

- 21 CFR Part 11 Compliant with Lab Solutions Software.
- Variety of Accessories suitable for semi-micro measurements.
- Buffer Solution and Sample Preparation modes for HPLC Users(only in APW & APWD Series Model).
- RS232C Interface.
- User ID and Password Management.
- Minimum Measurement Value (only in APW Series Model).
- Periodic Inspection Support Function (only in APW & APWD Series Model).

Model	AP225W	AP135W	AP225WD-AD	AP225WD	AP125WD-AD	AP125WD	AP324X	AP224X
Capacity	220 g	135 g	220g/3	220g/102g		120g/52g		220 g
Minimum Display	0.01 mg			0.1 mg/0	0.01 mg		0.1	. mg
Door	Manual		Auto	Manual	Auto	Manual	Ma	nual
	0.015 mg (upto 20 g)							
Repeatability	0.03 mg (upto 100 g)	0.05 mg	0.1 mg/0	0E mg	0.1 mg/0	02 mg	0.1 mg	
(at weighing capacity)	0.05 mg	0.05 mg	0.1118/0	1.05 mg	0.111g/0	.02 mg		
	(to weighing capacity)							
Linearity	±0.1 mg		±0.2 mg/:	±0.1 mg	±0.2 mg/±	0.05 mg	±0.3 mg	±0.2 mg
Response Time	8 sec.			2 sec.	/ 8 sec.		2 sec.	
Sensitivity Stability Against								
Temperature Range	±2 ppm / °C (10 to 30°C)							
Pan Size	Approx: 91 mm dia							
Weight (Approx)	7.9 kg	7.9 kg	9.7 kg	7.9 kg	9.7 kg	7.9 kg	7.0) kg



AUW-220D

UniBloc SEMI-MICRO Analytical Balance

AUW-D dual-range semi-micro balance

Excellent Weighing Performance

• Compact UniBloc mechanism and digital processing technology produce fast response and stability at the same time.

For Applications

• Shimadzu's unique WindowsDirect is a standard feature Measurement results can be transmitted to Excel® or other Windows® applications without installing any additional software on your computer. All you have to add is one RS-232C cable.

WindowsDirect works with Windows $^{\otimes}$ 95, 98 NT4.0, 2000, ME and XP. PC must be IBM PC/AT compatible.

If you'd like to use "WindowsDirect" with "Windows 7" "Windows Vista", or a USB port.

• Piece counting, various mass units, below-weigh hook, specific gravity measurement software are all standard features.

2

Model	Туре	Calibration	Display	Capacity	Pan Size	Body Dimension(WxDxH)
AUW220D	Semi Micro	Internal	0.01mg/0.1mg	82g/220g	80mm dia approx.	217 x 356 x 338mm

For more information • Email: info@anmalliance.com • Tel.: 91-22-6614 1500

AmketteAnalytics

+ SHIMADZU

Excellence in Science

ELECTRONIC TOP LOADING BALANCE



UP SERIES

Superior Response Significantly Increases Weighing Efficiency.

- Capacity range: 220g to 8.2kg.
- Readability: 0.001g, 0.01g and 0.1g.
- Significantly improved response time of approximately 1 second provides fastest response performance in its class.
- Full Aluminum Die Cast Housing Provides Excellent Chemical Resistance.
- Balance Keys Weighing Data Collection Software.
- Using the highly impact-resistant UniBloc sensor minimizes downtime due to malfunctions.
- UP series balances have been shown to operate with PLCs from major companies.
- Addition of ionizer increases measurement reliability.

"X" Series with Internal Calibration Weights

Model	UP223X	UP423X	UP623X	UP823X	UP1023X	UP2202X	UP4202X	UP6202X	UP422X	UP822X	UP8201X
Capacity	220 g	420 g	620 g	820 g	1020 g	2200 g	4200 g	6200 g	420 g	820 g	8200 g
Minimum Display			0.001 g	5			0.01 g				
Repeatability			≤ 0.001	σ			≤ 0.01 g		≤ 0.00)8 σ	≤ 0.08 g
(at Weighing Capacity)			20.001	5			2 0.01 g		2 0.00	00 g	≤ 0.00 g
Linearity		±0.002 g ±0.003 g ±0.02 g						±0.0	1 g	±0.1 g	
Response Time ^(*1)				A	pprox. 1 se	с.			Approx. 0.6 to 1.0 sec.		
Sensitivity Stability Against				+3 n	pm/°C (10	to 30°C)			+5 nn	m/°C (10 t	20°C)
Temperature Range				± 5 p	pm, c (10	10 30 C			-3 pp		0 30 CJ
									_		Approx.
Pan Size		Approx. 108 × 105 mm						80 mm		prox.	170 ×
									108 x 1	.05 mm	180 mm
Weight		Approx. 3.4 kg				A	pprox. 4.6 l	٨g	Appro	x. 3.4 kg	Approx.
											4.6 kg

*1 - Indicated response time values are typical

"Y" Series without Internal Calibration Weights

Model	UP223Y	UP423Y	UP623Y	UP823Y	UP1023Y	UP2202Y	UP4202Y	UP6202Y	UP422Y	UP822Y	UP8201Y	
Capacity	220 g	420 g	620 g	820 g	1020 g	2200 g	4200 g	6200 g	420 g	820 g	8200 g	
Minimum Display			0.001 g	5			0.01 g					
Repeatability			≤ 0.001	σ			≤ 0.01 g		≤ 0.00)8 a	≤ 0.08 g	
(at Weighing Capacity)			20.001	5			2 0.01 g		2 0.00	0 g	≤ 0.08 g	
Linearity		± 0.002 g ± 0.003 g ± 0.02 g						±0.0	1 g	±0.1 g		
Response Time ^(*1)		Approx. 1 sec.							Approx. 0.6 to 1.0 sec.			
Sensitivity Stability Against				+3 n	pm/°C (10	to 30°C)			+5 pp	±5 ppm/°C (10 to 30°C)		
Temperature Range				τορ		10 50 C)			pbi		550 CJ	
											Approx.	
Pan Size		Approx. 108 × 105 mm					Approx. 170 × 180 mm Appro				170 ×	
								108 x 1	.05 mm	180 mm		
Weight		Approx 2.7 kg				Δ	pprox. 2.9	<i>(</i> σ	Annro	v 27 kg	Approx.	
WCIBIIL		Approx. 2.7 kg				Approx. 2.3 kg		Approx. 2.7 kg		2.9 kg		

*1 - Indicated response time values are typical

3

ELECTRONIC ANALYTICAL & TOP LOADING BALANCE





AT-R SERIES

Basic Model with Improved Convenience.

- Capacity range: 62g to 320g.
- Readability: 0.1mg.
- Easy settings enable responsiveness and stability to be freely changed.
- Basic Analytical balance equipped with 2 interfaces: USB and RS232C.
- Prevent Human error by direct transfer of weight values to the computer.
- AT-R Series balances have been shown to operate with PLCs from major companies.
- Addition of ionizer increases measurement reliability.



TW/TX/TXB SERIES

Extremely capable and easy to operate.

- Capacity range: 220g to 6.2kg.
- Readability: 0.001g, 0.001ct (0.0002g), 0.01g, 0.1g.
- Easy to operate key layout.
- Piece counting function.
- Backlight LCD.
- Carat Balance

BL SERIES

High-resolution balances made affordable.

- Capacity range:220g to 3.2kg.
- Readability:0.001g,0.01g,0.1g.
- Piece counting function.
- Analog bar graph display.
- Change among many weighing units and functions with a single touch.
- Data Transfer Port.
- Equipped with a Square Pan for Ease of Operation.

MOISTURE BALANCE

MOC63U

Makes moisture content measurements quick and easy.

- Next-Generation Mass Sensor: UniBloc.
- Windows Direct Function.
- Backlit LCD.
- RS232C interface.
- USB Interface.
- In-Built Halogen Heater for moisture measurements.

A Total of Five Modes Makes This Balance Compatible with a Variety of Sample Measurements

• Ending Modes

Automatic/Timed Ending Mode.

Alternate Drying Modes
 Rapid/Slow/Step Drying Mode.

MOC-120H

Measure the Moisture Ratio of even large or large amounts of samples.

- The moisture ratio is found by heating the sample with the built-in infrared heater.
- The sample pan measures 130 mm in diameter, which is optimal for large amounts of samples.
- Importing results to a PC is easy (equipped with the Balance Keys function).
- Equipped with the UniBloc aluminum block mass sensor.
- Next-Generation Mass Sensor: UniBloc.
- Windows Direct Function.
- Backlit LCD.







SHIMADZU

Excellence in Science

ACCESSORIES



Excellence in Science

Static Remover (Ionizer)

- Static charge on a sample or in the container can cause fluctuations in weight.
- Stablo-AP provides reliable measurement by removing static electricity.
- AC Corona discharge method for fast Ionization (1 Second typically).
- Can be used easily in handheld form, setting up on stand, or being fixed within a balance.
- An excellent solution against static.

Electronic Printers

Enhanced support for ISO/GLP/GMP.

- Enhanced visibility for OLED Display.
- Includes functionality for preventing date alterations.
- Supports GLP/GMP using password protection- based date/time alteration prevention.
- Powered by Rechargeable Batteries.
- Status Display with Enhanced Visibility for OLED Display.

Specific Gravity Analyzer

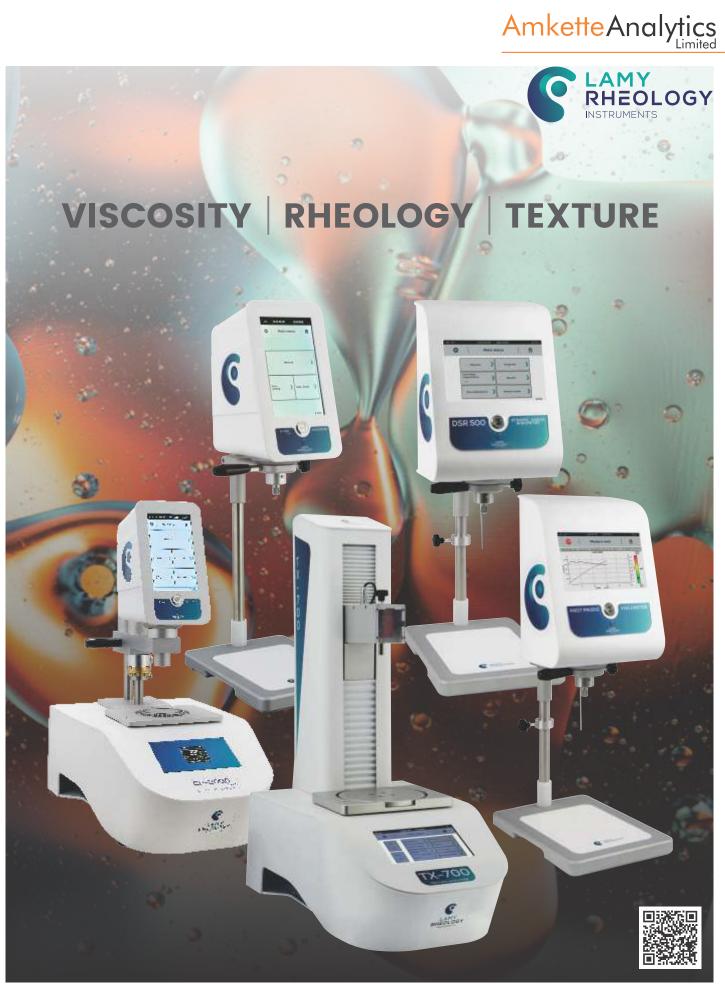
Measures a variety of gravity values with the Immersion Method.

^o Since 1967





- Capable of automatically calculating and displaying specific gravity values.
- Liquid density can also be measured by using an optional sinker.



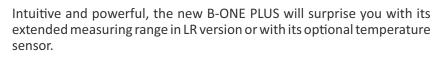
7

Standard stand

- and lot?







- 7" Touch Screen Display.
- Wide Speed Range upto 250rpm.
- Rotating Spring Less Technology.
- Robust Ball Bearing Suspension.
- SS316 Spindles.
- Bayonet Fitting for Quick & EZ Spindle Connection.
- Direct measure with Time to Stop.
- Built-in USER Mode & LOCK Mode.
- Built-in USB Port for Data Transfer.
- Torque gage on display

Rack stand

Optional

- Speed or shear rate control
- Units: cP (Centipoise), mPa.s/Pa.s(Poise)
- Displays: Viscosity, Speed, Torque(%), Shear Stress, Shear Rate, Time, Temperature (Optional probe required)
 - Auto Range (Min. & Max. Viscosity) (Range depends on speed & spindle selected)
 - Two Viscometer Ranges
 - LV & RV in 1 Viscometer (LR)
 - RV, HA 5HB in 1 Viscometer (HR)
 - Exactly same matching comparing results

		TY RANGE nPa∙s)		S	PEEDS	
Model	Min.	Max.	Accuracy	Repeatability	RPM	No. of Speeds
B-ONE PLUS LR (Low Range LV-RV)	1*	22M	±1% of FSR	+/-0.2%	0.1-250	UNLIMITED
B-ONE PLUS HR (High Range RV, HA-HB)	33*	240M	±1% of FSR	+/-0.2%	0.1-250	UNLIMITED
B-ONE PLUS HR / KU	40KU	140KU	±1% of FSR	+/-0.2%	0.1-250	UNLIMITED









With its expanded programming possibilities and increased modularity, the FIRST PLUS will be the ideal tool for your application whether you use it alone or with its software

- 7" Touch Screen Display.
- Wide Speed Range upto 250rpm.
- Rotating Spring Less Technology.
- Robust Ball Bearing Suspension.
- SS316 Spindles.
- Bayonet Fitting for Quick & EZ Spindle Connection.
- Direct measure with Time to Stop.
- Built-in Temperature Probe.
- Built-in USER Mode & LOCK Mode.
- Built-in USB & RS232 Port for PC/Printer Connection.
- Torque gage on display.
- Integrated temperature probe.
- Compatible with RheoTex software (21 CFR).
- Speed or shear rate control.
- Units: cP (Centipoise), mPa.s/Pa.s(Poise)
- Displays: Viscosity, Speed, Torque(%), Shear Stress, Shear Rate, Time, Temperature
- Auto Range (Min. & Max. Viscosity) (Range depends on speed & spindle
 - Two Viscometer Ranges
 - LV & RV in 1 Viscometer (LR)
 - RV, HA 5HB in 1 Viscometer (HR)
 - Exactly same matching comparing results

		ГҮ RANGE าPa∙s)		S	PEEDS	
Model	Min.	Max.	Accuracy	Repeatability	RPM	No. of Speeds
FIRST PLUS LR (Low Range LV-RV)	1*	22M	±1% of FSR	+/-0.2%	0.1-250	UNLIMITED
FIRST PLUS HR (High Range RV, HA-HB)	33*	240M	±1% of FSR	+/-0.2%	0.1-250	UNLIMITED

FIRST PRO PLUS





		ſY RANGE nPa∙s)		S	PEEDS	
Model	Min.	Max.	Accuracy	Repeatability	RPM	No. of Speeds
FIRST PRO LR (Low Range LV-RV)	1*	22M	±1% of FSR	+/-0.2%	0.1-250	UNLIMITED
FIRST PRO HR (High Range RV, HA-HB)	33*	240M	±1% of FSR	+/-0.2%	0.1-250	UNLIMITED

FIRST PRODIG







The viscometer with a 7 " touch screen allows you to create and save your measurement methods, display results or curves, analyse your data, print reports, manage users and protect data.

- Speed or shear rate control.
- Inbuilt software for programming.
- Constant, Multistep or ramp method.
- Direct curve on display.
- Direct analysis with regression.
- Direct report editing.
- Direct measure with time to stop.
- User and locked mode.
- Data recording and USB transfer.
- Torque gage on display.
- Integrated temperature probe.
- Printer connection.
- Compatible with RheoTex software.
- Display of viscosity limits according to mobile and speed.
- Direct control of temperature unit.
- LIMS function.
- QC limits function.
 - Two Viscometer Ranges
 - LV & RV in 1 Viscometer (LR)
 - RV, HA 5HB in 1 Viscometer (HR)
 - Exactly same matching comparing results

		TY RANGE nPa∙s)		S	PEEDS	
Model	Min.	Max.	Accuracy	Repeatability	RPM	No. of Speeds
FIRST PRODIG LR (Low Range LV-RV)	1*	22M	±1% of FSR	+/-0.2%	0.1-250	UNLIMITED
FIRST PRODIG HR (High Range RV, HA-HB)	33*	240M	±1% of FSR	+/-0.2%	0.1-250	UNLIMITED

FIRST PRODIG CP1000





The FIRST PRODIG CP1000 offers unparalleled ease of use and modularity. It incorporates a support for cone-plate measurements. It is perfectly suited to measurements at ambient temperature and offers the possibility to control temperature of the sample when combined with a circulating bath (not included). Its versatility allows it to use other measuring mobiles such as MS-RV, MS KREBS or MS VANE.

- Touch Screen Display.
- Wide Speed Range upto 250rpm.
- Rotating Spring Less Technology.
- Robust Ball Bearing Suspension.
- SS316 Spindles.
- CP-1000 stand for cone-plate measurement.
- Quick attachment with AC265 coupling.
- Manual lift for gap adjustment.
- Speed or shear rate control.
- Inbuilt software for programming.
- Constant, Multistep or ramp method.
- Direct curve on display.
- Direct analysis with regression.
- Direct report editing.
- Direct measure with time to stop.
- User and locked mode.
- Data recording and USB transfer.
- Torque gage on display.
- Integrated temperature probe.
- Printer connection.
- Compatible with RheoTex software(21 CFR).
- Display of viscosity limits according to mobile and speed.
- LIMS function.
- QC limits function.
- Multi Viscometer Range

- (CP & Rotational Viscometer) in 1 Viscometer CP, RV, VANE, Krebs-KU

• Exactly same matching comparing results

VISCOSITY RANGE cP (mPa∙s)						PEEDS
Model	Min.	Max.	Accuracy	Repeatability	RPM	No. of Speeds
FIRST PRODIG CP 1000	3	80M**	±1% of FSR	±0.2%	0.1-250	UNLIMITED

** According to Cone-plate MS CP

RM100 PLUS







VISCOSITY RANGE cP (mPa•s)					S	PEEDS
Model	Min.	Max.	Accuracy	Repeatability	RPM	No. of Speeds
RM100 PLUS	1	780M*	±1% of FSR	±0.2%	0.1-1500	UNLIMITED

M for million / * According to measuring system.

RM100 CP-1000 PLUS





Equipped with a fluid circulation for temperature control (bath not included), the RM100 CP1000 PLUS will allow you to perform cone-plate and beaker measurements using the MS RV, MS VANE or MS KREBS mobiles.

- 7" Touch Screen Display.
- Wide Range of CP01 CP10 Spindles.
- Wide Range of CP40Z CP52Z Spindles.
- Robust Ball Bearing Suspension.
- CONE/PLATE Springless Technology.
- AC265 coupling system for SS316 Cone Plate.
- SS316 Spindles (CP/RV/VANE).
- Bayonet Fitting for Quick & EZ Spindle Connection.
- Removable Bottom Plate.(w/intregrated temp. probe)
- Manual lift for gap adjustment.
- Guaranteed Easy Cleaning.
- Programming and Recording Method.
- CP1000 Stand for C/P measurement.
- Built-in USER Mode & LOCK Mode.
- Built-in USB & RS232 Port for PC/Printer Connection.
- Optional RheoTex software (21 CFR).
- Units: cP (Centipoise), mPa.s/Pa.s(Poise)
- Speed or shear rate control.
- Inbuilt software for programming / Printer connection.
- Direct measure with time to stop.
- Torque gage on display.
- Integrated temperature probe.
- Display of viscosity limits according to mobile and speed.
- Multistep method.
- LIMS function / QC limits function.
- Displays: Viscosity, Speed, Torque(%), Shear Stress, Shear Rate, Time, Temperature
- Auto Range (Min. & Max. Viscosity) (Range depends on speed & spindle selected)
 - Multi Viscometer Range
 (CP & Rotational Viscometer) in 1 Viscometer CAP, CP, RV, HA-HB, KU
 - Cover High Torque 181,000 dyne cm ICI Specifications method
 - Covers Low Torque 7,970 dyne cm (123CAP)
 - Wide Shear Range! 1-20,000 sec-¹
 - Exactly same matching comparing results

VISCOSITY RANGE cP (mPa•s)						PEEDS
Model	Min.	Max.	Accuracy	Repeatability	RPM	No. of Speeds
RM100 CP-1000 PLUS	1	190M**	±1% of FSR	±0.2%	0.1-1500	UNLIMITED

M for million / ** According to MS CP spindle

RM100 CP-2000 PLUS CONE & PLATE VISCOMETER



AmketteAnalytics



Cone and Plate measuring systems are adapted for samples in limited quantities and difficult to clean. With maximum shear rate up to 20,000 s⁻¹, the RM100 CP2000 PLUS will fit all your applications.

- 7" Touch Screen Display.
- Wide Range of CP01 CP10 SS316 Spindles.
- Wide Range of CP40Z CP52Z SS316 Spindles.
- Robust Ball Bearing Suspension.
- AC265 coupling system for Cone Plate.
- Removable Bottom Plate.(w/integrated temp. probe)
- Guaranteed Easy Cleaning.
- CONE/PLATE Springless Technology.
- Programming and Recording Method.
- Direct report editing.
- Huge speed and torque range.
- Direct control of temperature unit.
- Inbuilt software for programming.
- Printer connection.
- Data recording & USB Transfer
- Built-in USER Mode & LOCK Mode.
- Built-in USB & RS232 Port for PC/Printer Connection.
- Optional RheoTex software (21 CFR).
- Units: cP (Centipoise), mPa.s/Pa.s(Poise)
- Multistep method.
- LIMS function.
- QC limits function.
- Displays: Viscosity, Speed, Torque(%), Shear Stress, Shear Rate, Time, Temperature
- Auto Range (Min. & Max. Viscosity) (Range depends on speed & spindle selected)
 - Multi Viscometer Range
 - (CP & Rotational Viscometer) in 1Viscometer CP models & CAP models
 - Cover High Torque 181,000 dyne cm ICI Specifications method
 - Covers Low Torque 7,970 dyne cm (123CAP)
 - Wide Shear Range! 1-20,000 sec-¹
 - Exactly same matching comparing results

			S	PEEDS		
Model	Min.	Max.	Accuracy	Repeatability	RPM	No. of Speeds
RM100 CP-2000 PLUS	1	190M	±1% of FSR	±0.2%	0.1-1500	UNLIMITED

M for million

GT-300 PLUS GEL TIMER





Measure your Gel Time on one click

The GT 300 PLUS is a «Gel Timer» to measure all curing times of your products. Combined with disposable measuring systems and temperature control, it adapts to all your expectations for a very competitive cost per measurement.

- Inbuilt software for programming
- RheoTex software included.
- Direct control of temperature unit.
- Measure with disposable hooks and cups.
- Sample temperature probe (optional).
- Low sample volume.
- Temperature ramp available.
- Display of viscosity limits according to mobile and speed.
- LIMS function.
- QC limits function.

Disposable cup (aluminium) (by 100) Ref. 700011



Disposable hook (stainless steel) (Vol. 50-80mL) (by 100) Ref. 700010



Disposable hook (steel) (Vol. 35-50mL) (by 100) Ref. 700040-



GT-300 PRODIG GEL TIMER



Disposable cup (aluminium) (by 100) Ref. 700011

Disposable hook (stainless steel) (Vol. 50-80mL) (by 100) Ref. 700010





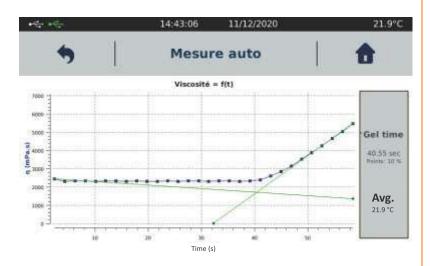
Disposable hook (steel) (Vol. 35-50mL) (by 100) Ref. 700040-



Measure your Gel Time on one click

The GT300 PRODIG measures your gel time, shows curves, analyses your data and print reports. Autonomy and user-friendly, it benefits to GT300 performances with ergonomic innovations.

- Inbuilt software for programming.
- Direct curve on display.
- Direct Gel time analysis.
- Direct report editing.
- Direct control of temperature unit.
- Measure with disposable hooks and cups.
- Sample temperature probe (option).
- Low sample volume.
- Temperature ramp available.
- Display of viscosity limits according to mobile and speed.
- LIMS function.
- QC limits function.



PORTABLE B-ONE VISCOMETER





The PORTABLE B-ONE is the ideal tool for your viscosity measurements in the workshop, production area, delivery area or outside. With one hour of battery life, it will optimize your control times and flexibility.

- Autonomy more than one hour.
- Charge indicator.
- Direct measure with time to stop.
- Usable with standard or rack stand(option).
- User and locked mode.
- Data recording and USB transfer.
- Torque gage on display.
- Display of viscosity limits according to mobile and speed.
- Speed or shear rate control.

VISCOSITY RANGE cP (mPa•s)					S	SPEEDS
Model	Min.	Max.	Accuracy	Repeatability	RPM	No.of Speeds
B-ONE Portable Viscometer	200 (15**)	240M	±1% of FSR	±0.2%	0.1-250	UNLIMITED

M for million / ** Can reach 15 mPa.s with MS BV.

PORTABLE RM 100 - ON-LINE / PROCESS VISCOMETER



No matter where, the PORTABLE RM 100 allows you to bring your viscosity measurement methods where your lab can not operate. With programming, memorization, temperature measurement and all measurement systems, all your expertise is moving!

- Autonomy more than one hour.
- Charge indicator.
- Huge speed and torque range.
- Usable with standard or rack stand (option).
- Inbuilt software for programming.
- Direct measure with time to stop.
- User and locked mode.
- Data recording and USB transfer.
- Torque gage on display.
- Integrated temperature probe.
- Printer connection.
- Compatible with RheoTex software.
- Display of viscosity limits according to mobile and speed.
- Speed or shear rate control.
- Multistep method.
- LIMS function.
- QC limits function

	Model
	RM-100 Portable Viscon
	M for million / ** Can reach
~	

Since 1967

VISCOSITY RANGE cP (mPa•s)						PEEDS
Model	Min.	Max.	Accuracy	Repeatability	RPM	No.of Speeds
RM-100 Portable Viscometer	200 (1**)	240M	±1% of FSR	±0.2%	0.1-1500	UNLIMITED
M for million / ** Can reach 1 mPa.s v	with MS DIN19					

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RM100 i - ON-LINE / PROCESS VISCOMETER





The RM100 i is perfectly suited for so-called immersion use, installing it over a tank or on a support for a measurement in a pot. Only the measuring head is above the product, the electronic box can be installed more than 17 meters in a control cabinet with its 4-20mA output

- Industrial measure on large tanker.
- Continuous measurement or with time to stop.
- 4-20 mA output for external control.
- 17m maximum distance between head and box.
- Usable with standard or rack stand.
- Huge viscosity range.
- Inbuilt software for programming.
- External temperature probe (option).
- Printer connection.
- Compatible with RheoTex software.
- Display of viscosity limits according to mobile and speed.
- Speed or shear rate control.
- Multistep method.
- LIMS function.
- QC limits function

RM 100 L - IN-LINE / PROCESS VISCOMETER



The online viscosity measurement of the RM100 L guarantees continuous control for immediate action in production.

Whatever the flow rate, the viscosity or the diameter of your pipe, this viscometer will be able to adapt by guaranteeing you a measurement according to laboratory's norms.

- Industrial on-line measurement.
- Continuous measurement or with time to stop.
- 4-20 mA output for external control.
- Magnetic bearing for sealing.
- 30m maximum distance between head and box.
- Huge viscosity range.
- Inbuilt software for programming.
- External temperature probe (option).
- Printer connection.
- Compatible with RheoTex software.
- Display of viscosity limits according to mobile and speed.
- Speed or shear rate control.
- Multistep method.
- LIMS function.
- QC limits function

RM 200 PLUS RHEOMETER



C LAMY RHEOLOGY INSTRUMENTS

The Rheology at your fingertips

Thanks to its large storage capacity and its easy programming, the rheometer RM200 PLUS allows you to realize all your measurements of flow curves, yield point, thixotropic, analysis without software.

- Constant, Multistep or ramp method.
- Direct analysis with regressions.
- Direct control of temperature unit.
- Huge viscosity range.
- Speed or shear rate control.
- Inbuilt software for programming.
- Direct measure with time to stop.
- User and locked mode.
- Data recording and USB transfer.
- Torque gage on display.
- Integrated temperature probe.
- Printer connection.
- Compatible with RheoTex software.
- Display of viscosity limits according to mobile and speed.
- LIMS function.
- QC limits function.

RM 200 CP-4000 PLUS RHEOMETER



Optimize your rheological measurements

The motorized lift of the RM200 CP4000 PLUS allows a fast and repeatable installation of cone and plate measuring systems guaranteeing reliable rheological measurements whatever your application.

- Automatic lift for gap.
- Quick attachment with AC265 coupling.
- Constant, Multistep or ramp method.
- Direct analysis with regressions.
- Direct control of temperature unit.
- Huge viscosity range.
- Speed or shear rate control.
- Inbuilt software for programming.
- Direct measure with time to stop.
- User and locked mode.
- Data recording and USB transfer.
- Torque gage on display.
- Integrated temperature probe.
- Printer connection.
- Compatible with RheoTex software.
- Display of viscosity limits according to mobile and speed.
- LIMS function.
- QC limits function.

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DSR 500 RHEOMETER





A new vision on your measurements

The rheometer with imposed shear rate, equipped with a 7 " touch screen to display the curves directly. And with direct report editing on a desktop printer, measuring viscosity or yield point has never been so easy!

- Direct curve on display.
- Shear rate and speed control.
- Constant, Multistep or ramp method.
- Direct analysis with regressions.
- Direct control of temperature unit.
- Huge viscosity range.
- Inbuilt software for programming.
- Direct measure with time to stop.
- User and locked mode.
- Data recording and USB transfer.
- Torque gage on display.
- Integrated temperature probe.
- Printer connection.
- Compatible with RheoTex software.
- Display of viscosity limits according to mobile and speed.
- LIMS function.
- QC limits function.

DSR 500 CP-4000 PLUS RHEOMETER



A rheometer to meet your requirements

With its motorized lift, built-in temperature control unit and all the features of the DSR500, this new cone-plate rheometer optimizes your measurements and guarantees high performance even without a computer!

- Automatic lift for gap.
- Quick attachment with AC265 coupling.
- Direct curve on display.
- Shear rate and speed control.
- Constant, Multistep or ramp method.
- Direct analysis with regressions.
- Direct control of temperature unit.
- Huge viscosity range
- Inbuilt software for programming.
- Direct measure with time to stop.
- User and locked mode.
- Data recording and USB transfer.
- Torque gage on display.
- Integrated temperature probe.
- Printer connection.
- Compatible with RheoTex software.
- Display of viscosity limits according to mobile and speed.
- LIMS function.
- QC limits function.

Since 1967

TX700 TEXTURE ANALYZER





With its wide range of probes and fixtures, the TX-700 is the ideal tool for your texture analysis. Thanks to its touch screen directly displaying the curves, its method programming capability, storage and analysis of measurements, the TX-700 will integrate in laboratory and production area.

- Integrated temperature probe.
- Direct curve on display.
- Inbuilt software for programming.
- Data recording and USB transfer.
- Many different probes and fixtures.
- Interchangeable load sensors.
- Height adjustable tray.
- Compatible with RheoTex software.
- LIMS function.

Designation
TX-700 TEXTURE ANALYZER - 10N
TX-700 TEXTURE ANALYZER - 20N
TX-700 TEXTURE ANALYZER - 50N
TX-700 TEXTURE ANALYZER - 100N
TX-700 TEXTURE ANALYZER - 250N
TX-700 TEXTURE ANALYZER - 500N



FIXTURE BASE TABLE

METHODS	PROPERTIES			
COMPRESSION	Compressibility, compactability, springiness, relaxation, crush strength, firmness, elastic, work/load/deflection at rupture, maximum load.			
PUNCTURE PENETRATION	Firmness, gel strength, dipping consistency, product toughness, fracture force, 'cake' breaking strength, semi-solid consistency, actuation force.			
CUTTING SHEARING	Bite force, firmness, toughness, shear force.			
FRACTURE BENDING	Brittleness, snapping force, tip strength, flexibility, force to bend, bend modulus, fracture force, flexure modulus.			
TENSILE	Tensile strength, tensile 'break point', extensibility, stretchiness, elongation, burst point, tensile modulus, strength and strain to fracture, fracture toughness			
ADHESION	Adhesiveness, stickiness, tackiness, peel force, cohesiveness, tailing, stringiness, legging, work of adhesion.			
DETERMINATION OF GELATIN BLOOM STRENGTH	Determination of Bloom Strength as a means of monitoring the effects of quality, concentration and processing methods on gelatin.			









TENSILE

ADHESION



Since 1967

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DETERMINATION OF **GELATIN BLOOM** STRENGTH

THERMOCELL PACKAGE HIGH TEMPERATURE





Electrical heating system for cylindrical measuring systems

- Temperature range from Room T°C to +300°C.
- Economic electric oven.
- Compatible with bayonet coupling device.
- Compatible with norms ASTM D4402 and D3236.



Designation	Reference	Temp. Range	Туре	Compatible measuring system	Dimensions (pxlxh) in mm	Weight
RT-1 PLUS	N130110	RoomT°C to +300°C	Electrical	MS SV, MS DIN, MS ULV	610 x 340 x 650	15 kg

HELIPRO for GELS, PASTE, CREAMS etc.

The HELIPRO device makes it possible to measure viscosity of gels, pastes, creams and more generally products that do not flow.

When a measuring mobile turns in this type of product, we can observe appearance of cavities around the rotating spindle which has effect of reducing measured viscosity values. Through its movement vertical, HELIPRO system with its mobile T shape will prevent formation of cavities within product and will ensure reliable and consistent measurement.

T-bar spindles & holder

Since 1967

ACCESSORIES

MS-SV (Small Volume)



LAMY RHEOLOGY MS-SV Measuring System for Low/Small Volume Viscosity Measurement. This measuring system makes it possible to measure products in small quantities by applying a shear rate. Cylindrical geometry provides calculable shear rates, which allow the user to predict a product's reaction to shear stress.

- · For rheological evaluation of materials where sample volume is limited
- Sample chamber easily changed
- Optional disposable chamber also available
- Optional Water jacket allows rapid and precise temperature control of sample
- Simultaneous sample temperature measurement (optional for B-One Plus series)

Small Volume Package



Small Volume Package with Water Jacket



MS-ULV

Since 1967

LAMY RHEOLOGY MS-ULV Measuring System for Ultra Low Viscosity Measurement up to 1cP (centipoise). This measuring system makes it possible to measure low viscosity products in control by applying shear rate.

- Ideal for low viscosity materials
- SS#316 Stainless steel parts are easily cleaned
- Reduces measuring range to as low as 1 cP (LR Model)
- Small sample size: 11 mL
- Cylindrical geometry provides defined shear rates for detailed product analysis

Ultra Low Adapter



Ultra Low Adapter with Water Jacket



MEASURING SYSTEMS WITH BAYONET COUPLING FOR LR DEVICE

Designation	Sample Volume (ml)	Shear rate range (s-1)	Viscosity range (mPa∙s)
MS-ULV	21 ml	1 to 510	1 to 26K (LR) 33 to 750K (HR)

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VISCOSITY STANDARD AT 25 °C TEMPERATURE





Lami Silicone Viscosity Standards provide a convenient, reliable means of checking the performance of most Viscometers / Rheometers. These fluids are calibrated at 25°C and available in standard bottle along with Certificate of Viscosity Standard Calibration.

Part No.	Temperature	Viscosity
CPS 5	25 °C	5 cps
CPS 10	25 °C	10 cps
CPS 50	25 °C	50 cps
CPS 100	25 °C	100 cps
CPS 500	25 °C	500 cps
CPS 1000	25 °C	1000 cps
CPS 5000	25 °C	5000 cps
CPS 12500	25 °C	12500 cps
CPS 30000	25 °C	30000 cps
CPS 60000	25 °C	60000 cps
CPS 100000	25 °C	100000 cps

GUARDLEG LV

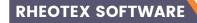
Allows correct positioning of MS-LV spindles in 600ml beakers for optimized viscosity measurement.



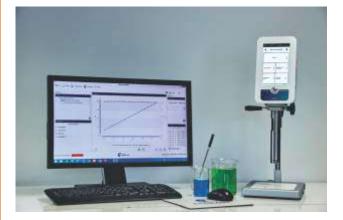
GUARDLEG RV

Allows correct positioning of MS-RV spindles in 600ml beakers for optimized viscosity measurement.









The integrity of results and methods is guaranteed by using a database and by an optimized management of the users with specific rights. New graphical tools allow custom management of the display of curves, tables and analysis results

- Creation and saving of methods.
- Transfer data from device memory.
- Temperature ramp method.
- Use of mathematical tools for data analysis.
- Creation of free program.
- PDF report editing.
- Compatible with office software or experience creation (automatic measurement and analysis).

Functions / Instrument version	FIRST	FIRST PRO	FIRST PRODIG	RM 100	RM 200	DSR 500	GT300	GT300 PRODIG	TX-700
Instrument connection	USB, RS232 RS2						RS232		
Method viscosity over time	*	*	*	*	*	*	*	*	
Method step by step	*	*	*	*	*	*			
Method flow curve			*		*	*			
Methods Compression, Relaxation, Tensile, TPA, Penetrometry									*
Methods Free Program	*	*	*	*	*	*	*	*	*
Loop mode	*	*	*	*	*	*	*	*	*
Experiment	*	*	*	*	*	*	*	*	*
Logarithmic ramp			*		*	*			
Control of temperature unit (EVA, RT, CP1, CP2000, CP4000)*	*	*	*	*	*	*	*	*	
Data transfer from device memory	*	*	*	*	*	*	*	*	*
Direct curve while test	*	*	*	*	*	*	*	*	*
Import methods and results	*	*	*	*	*	*	*	*	*
Export/copy data to Office	*	*	*	*	*	*	*	*	*
Export/copy diagram to Office	*	*	*	*	*	*	*	*	*
Editing report pdf	*	*	*	*	*	*	*	*	*
Display multiple curves	*	*	*	*	*	*	*	*	*
Lift control					For CP4000				*
Role/user management	*	*	*	*	*	*	*	*	*
21 CFR Part 11#	*	*	*	*	*	*	*	*	*
Automatic stop on measured value	*	*	*	*	*	*	*	*	*
Mathematic analysis of results	Maximum, minimum, average, curves average, smoothing, interpolation, inflexion								
Analysis as Area, Slope, TPA, relaxation									*
Rheological models	Newton, Ostwald, Bingham, Casson, Casson-Steiner, Chocolat			Newton, Ostwald, Bingham, Casson, Power Law, Herschel-Bulkley, Casson-Steiner, Steiger Ory, Chocolat					

* Only for temperature unit with programmer.

CFR Optional Licence Requires.

Amkette Analytics

BINDER

Best conditions for your success

Incubators Hot Air Oven Climate Chambers Ultra Low Temperature Freezers





Drying & heating



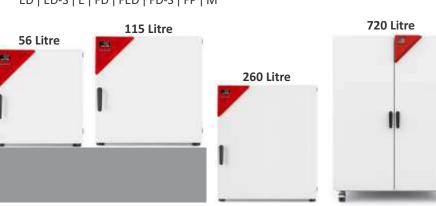
The requirements for a drying chamber in the area of temperature stress testing reach far beyond temperature accuracy, heat distribution, and residue-free drying. A chamber used to dry flammable materials has to meet certain safety standards. BINDER masters these requirements like no other and offers a wide range of drying and heating chambers, material test chambers, and chambers for safety drying or gentle vacuum drying of heat-sensitive samples.



Heat Treatments Drying and heating chambers ED | ED-S | E | FD | FED | FD-S | FP | M



Safety drying Safety drying chambers FDL





Vacuum drying Vacuum drying chambers VD | VDL



Controller with LCD and numerous functions



Data recording via the USB port, which comes as standard

ED & FD/FED Avantgarde.Line series



Controller and timer functions

	ED series	FD series	FED series	
Ramp function	٠	٠	٠	
Time delayed OFF	٠	٠	٠	
Time delayed ON	٠	٠	٠	
Temperature-dependent delayed OFF	٠	•	•	
Class 2 independent adjustable	•	•	•	
temperature safety device	•	•	•	
Visual temperature alarm	•	•	•	
Adjustable fan speed	_	-	•	
Electromechanical control of the	•			
exhaust air flap	•	_	_	
Advanced timing functions	—	—	٠	

Features:

- Temperature range: ambient temperature +5°C to +300°C
- Excellent temporal and spatial temperature accuracy thanks to new APT.line™ technology
- Transfer of heat through natural convection (ED series)
- Transfer of heat through forced convection (FD/FED series)
- Up to 30% lower energy consumption compared to conventional units on the market
- Easy and intuitive to use thanks to modern control technology, USB interface
- Class 2 integrated independent adjustable temperature safety device (DIN 12880) with visual alarm
- Ethernet interface (FD/FED only)

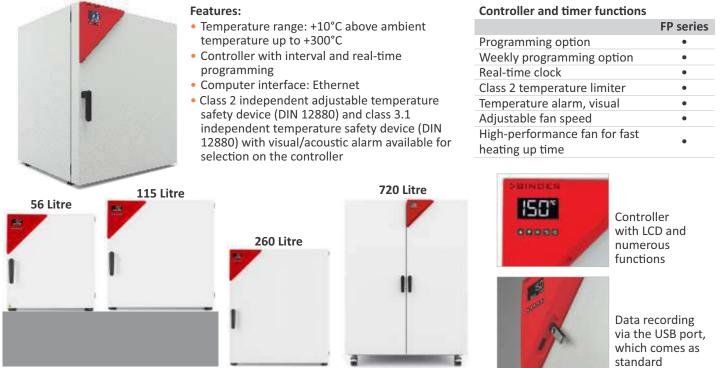
Available sizes: ED/FD 23 | ED/FD 56 | ED/FD 115 | ED/FD 260 | ED 400 | ED/FD 720 model Available sizes: FED 56 | FED 115 | FED 260 | FED 400 | FED 720 model For detail Specifications, Features refer to model specific datasheet contact sales representative

Drying and heating chambers with forced convection and program functions | FP series



Best conditions for your success

FP series - Drying and heating chambers with forced convection and program functions. Material test chamber with mechanical convection of the FP series provides reliably short drying times and particularly fast heating – even for chambers under full loads.



Available sizes: FP 56 | FP 115 | FP 260 | FP 720 model

OVENS WITH ADVANCED PROGRAM FUNCTIONS (M)

These series ovens meet diverse requirement for drying, sterilization and heating. With a maximum of +300 °C and various programming options the M series material test chambers are ideal for material and aging tests. With a high air flow, the powerful fans ensure rapid heating.









• Identical test conditions throughout the chamber interior independent of sample size and quantity

- Outstanding thermal insulation saves operation costs
- Advanced programming options
- Temperature range: +22°C above ambient temperature up to +300°C
- High temperature accuracy thanks to APT.line[™] technology with increased heating output
- Reinforced fan with adjustable speed
- Electromechanical control of the exhaust air flap
- Intuitive touchscreen controller with time-segment and real-time programming
- Class 2 independent adjustable temperature safety device (DIN 12880) and class 3.1 independent temperature safety device (DIN 12880) with visual/ acoustic alarm available for selection on the controller
- Failsafe function backup sensor Pt 100
- Computer interface: Ethernet
- Internal data logger, measured values can be read out in open format via USB

Available sizes: M 56 | M 115 | M 260 | M 720 model

ED-S & FD-S Solid.Line series

BINDER

Best conditions for your success

The new products in the Solid.Line impress with their tried-and-tested BINDER quality and reliability. They are suited to drying and heating. The attributes of the Solid.Line are geared towards the application in question and therefore used in research and quality assurance.

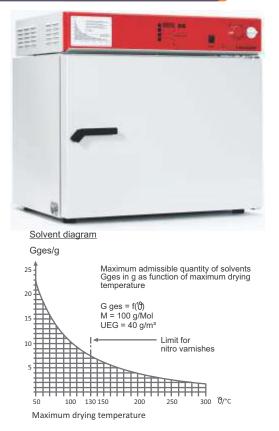


Features:

- Temperature range: ambient temperature +7°C to +250°C
- High temperature accuracy thanks to APT.line[™] preheating chamber technology
- Transfer of heat through natural convection (ED-S only)
- Transfer of heat through forced convection (FD-S only)
- Controller with timer function
- Class 2 integrated independent adjustable temperature safety device (DIN 12880) with visual alarm

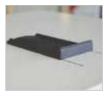
Available sizes: ED-S 56 / FD-S 56 | ED-S 115 / FD-S 115 model

SAFETY DRYING OVEN (FDL)





Controller with 7-segment display



Manually adjustable exhaust air flap

Controller and timer functions

ED-S series	FD-S series
٠	٠
•	•
_	_
nt –	_
•	٠
rm •	•
_	_
trol _	_
	• • - nt – • • • • • • • • • • • • • • • • • • •

The FDL 115 with silicone and dust-free inner chamber, as well as symmetric airflow dries specimens containing solvents and thus this safety drying oven meets all EN 1539 requirements

- Safety concept meets the DIN EN 1539-2010-08 standard
- Short drying time with high temperature accuracy and defined ventilation
- Silicone free and dust-free inner chamber
- Replaceable fresh air cartridges are easy to change and ensure constant fresh air quality
- APT.line[™] preheating chamber technology
- Controller with time-segment and real-time programming
- 2 chrome-plated racks
- Fresh-air monitoring with audible and visual alarm and automatic deactivation of heating
- Replaceable filter cartridge, Class M6
- Class 2 independent adjustable temperature safety device (DIN 12880) with visual alarm
- Computer interface: RS 422
- Standard door gasket made from solvent-resistant FKM for use at up to 200 °C
- Optional door gasket made from silicone with limited solvent resistance for use at up to 300 °C

Available sizes: FDL 115 model

flammable solvents | VDL series

Vacuum drying chambers for

Features: Temperature range: ambient temperature +9°C to +110°C

Shatterproof.

spring-mounted

safety glass plane

- Unique worldwide: ATEX conformity for units: EX II 2/3/- G IIB T3 Gb/Gc/- X
- Intuitive touchscreen controller with graphical pressure and temperature display
- Program-controlled drying monitoring with automatic ventilation at end of process
- Internal data logger, measured values can be read out in open format via USB



Since 1967

(31)

Vacuum Ovens

BINDER vacuum drying chambers for high performance and safety

BINDER vacuum drying chambers live up to the highest of standards when it comes to safety, quality, and performance Samples can be dried quickly, effectively, and gently, with homogeneous temperature distribution across the usable space and a drying process free from condensation. On top of all this, high levels of safety are guaranteed with the vacuum drying chambers. Adjustment without overshooting provides maximum protection for samples, while a unique, sophisticated safety concept is in place where operation is concerned.

In two series, BINDER has models available for both non-flammable and flammable solvents. The VDL series for flammable solvents also has an explosion-proof interior for added safety.

Vacuum drying chambers for quick and gentle drying

BINDER vacuum drying chambers can be used for extremely quick drying, without posing a risk to the samples in the process. These drying chambers meet even the strict requirements of the laboratory within industry and science applications alike, proving to be extremely durable and robust. The interior is made of highly corrosion-resistant stainless steel which is resilient and easy to clean. Maintenance and care is simplified further by the smooth inner chamber with rounded edges and racks that can be inserted flexibly and removed for cleaning purposes.

BINDER's vacuum drying chambers operate within a temperature range of between 10 °C and 220 °C, and are suitable for a wide range of applications. Fast and gentle sample drying is guaranteed at all times together with high levels of safety and usability.

Vacuum drying chambers for non-flammable solvents | VD series



Features:

- Temperature range: ambient temperature +9°C to +220°C
- Controller with digital display of pressure and temperature Program-controlled drying monitoring with automatic
- ventilation at end of process
- Internal data logger, measured values can be read out in open format via USB
- 1 aluminum expansion rack, can be custom-positioned
- Universal ventilation, can be used for inert gas or ambient air
- Universal access port, DN 16







Optimized thermal transfer through expansion racks

Optional equipment: pump chamber with pump

Optional LED strip light

Available sizes: VD/VDL 23 | VD/VDL 56 | VD/VDL 115 model

Jacket heating with

optimized thermal

transfer to expansion racks





AmketteAnalytics

Growth

BINDER

Best conditions for your success

Precise regulation of temperature, humidity, CO2 concentration, and O2 concentration as physical parameters, plus reliable reproducibility of test conditions, are the most important requirements for incubators and climate chambers used in scientific laboratories that work with living organisms. BINDER is aware of these requirements and works continuously to provide you with the perfect CO2 incubators, microbiological incubators, and plant growth chambers. They deliver innovative technical solutions and comprehensive equipment options as standard.



Cell culture CO2 incubators CB-S | CB | CBF



Microbiological incubation Standard incubators B | BD | BD-S | BF Cooling incubators KB | KB ECO



Plant biology Growth chambers KB-PRO |KBF-PRO

Incubators - Micro Biological | BD & BF Avantgarde.Line series

Cooling incubators are used in various sectors and areas of microbiology, such as in pharmaceutical and medical research, in the food industry, and in environmental monitoring. Other applications include battery research and development in which cooling incubators are used as "climate chambers without humidity regulation."

The completely redesigned Avantgarde.Line incubators with natural convection or forced convection are now the perfect solution when it comes to meeting growth and incubation requirements. With their exceptional efficiency and perfect temperature accuracy thanks to the very latest APT.line™ technology, this new generation of incubators has real appeal.

he BINDER incubator of the **BD Avantgarde.Line series** is specially designed for gentle incubation of organisms, as well as conditioning of heat-sensitive media. The new design of the units and the homogeneous temperature distribution ensure the very best results.

Features:

- Temperature range: ambient temperature plus 5 °C to 100 °C
- Temperature range (model 56 | 260): ambient temperature plus 7 °C to 100 °C (BF series)
- Temperature range (model 115): ambient temperature plus 8 °C to 100 °C (BF series)
- High temperature accuracy thanks to APT.line[™] technology
- Natural convection (BD series)
- Forced convection (BF series)
- Controller with LCD display
- Electromechanical control of the exhaust air flap
- Inner door made of tempered safety glass
- 2 chrome-plated racks
- Units up to 115 L are stackable
- Class 3.1 integrated independent temperature safety device(DIN 12880) with visual alarm
- Ergonomic handle design

The BINDER incubator of **the BF Avantgarde.Line** series with forced convection is suitable for all gentle incubation applications, particularly under a full load and large batch throughputs. This incubator is extremely homogeneous and has quick recovery times.

Controller and timer functions

	BD series	BF series
Ramp function	•	•
Time delayed OFF	•	•
Time delayed ON	•	٠
Temperature-dependent delayed OFF	•	٠
Class 3.1 independent temperature	•	•
safety device	•	
Visual temperature alarm	•	•
Natural convection	•	
Forced convection	—	•
Adjustable fan speed	_	•

Controller



Since 1967

Available sizes: BD/BF 56 | BD/BF 115 | BD/BF 260 | BD/BF 720 model



163 Litre

KT Series – Cooled Incubator Peltier

The KT series combines outstanding performance with impressive energy efficiency and environmental friendliness. The cooled incubators of the KT series are state-of-the-art in application and protect the samples.

Features:

- Temperature range: +4 °C to +100 °C
- Electric cooling with Peltier module
- Adjustable fan speed
- Controller with time-segment and real-time programming
- Inner door made of tempered safety glass
- Data recording and USB interface
- APT.line[™] preheating chamber technology
- Adjustable fan speed
- Electric cooling with Peltier module
- Display via LCD monitor
- Input via pushbutton/rotary knob
- Inner door made of tempered safety glass
- 2 stainless steel racks
- Units up to 115 liters are stackable
- Class 3.1 independent temperature safety device (DIN 12880) with visual and audible temperature alarm
- Computer interface: Ethernet
- Data recording and USB interface



Controller with time segment and real time programming



HIT insulation, direct foaming of the chamber with the housing

53 Litre



Inner door made of safety glass with gasket

102 Litre



Amkette Analytics

BINDER Best conditions for your success

White light LED modules providing flexible and simple placement (option)







KB Series – Cooled Incubators with Compressor Technology

The powerful virtuoso in cooling incubators for microorganisms: KB units are able to incubate with exceptional precision even when fully loaded, feature a hot-air disinfection routine, and can be programmed for weekend operation with ease. The new KB unit consumes as much as 40% less energy than the previous model.

Features:

model

front

Temperature range: 0°C to +70°C

Cooling with climate-neutral R-600a refrigerant

Simple programming of a second set temperature value
Proven APT.line™ preheating chamber technology

• Energy-efficient cooling with modern inverter cooling unit

Stackable tabletop units with a volume of up to 130 liters
Simple programming of a second set temperature value
Internal data logger, measured values can be read out in open

• Unit self-test for comprehensive status analysis

• Floor-standing units featuring robust twin casters with brakes at the

Class 3.3 independent temperature safety device (DIN 12880) with

Inner doors made of metal oxide-coated safety glass

Door heating to prevent condensation

Housing design with HIT technology

Two racks made of stainless steel Large access port with silicone plug

Interior made completely of stainless steel

Up to 40% lower energy consumption compared to the previous



Inner chamber made of corrosion-resistant stainless steel



format via USB

visual and acoustic alarms

Data interfaces: Ethernet. USB

Inner door made of tempered safety glass



White light LED modules providing flexible and simple placement (option)



Available sizes: KB 65 | KB 130 | KB 260 | KB 470 | KB 720 | KB 1060 model

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Since 1967

BINDER Best conditions for your success

KB-ECO Series – Cooled Incubator

Thanks to thermoelectric cooling technology with patented heat dissipation, the new KB ECO cooling incubator is one of the most energy-efficient cooling incubator on the market. The thermoelectric cooling technology means the KB ECO series is also very quiet during operation.



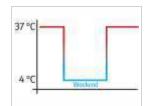
Features:

- Temperature range: 0°C to +70°C (max. 26°C below the ambient temperature)
- Particularly energy-efficient thanks to thermoelectric cooling technology
- Environmentally friendly operation without refrigerants
- APT.line[™] preheating chamber technology
- Electric temperature control thanks to thermoelectric cooling module with innovative heat dissipation
- Inner door made of tempered safety glass
- Inner chamber made completely of stainless steel
- 2 stainless steel racks
- Adjustable condensate protection
- Access port with silicone plug Ø 30 mm
- LCD to display temperature along with additional information and alarms
- Internal data logger, measured values can be read out in open format via USB
- Unit self-test for comprehensive status analysis
- Computer interface: Ethernet



Unique condensate and dry-out protection for all operating conditions

247 Litre



Temperatures programmable for intermitted incubation and refrigeration

400 Litre



Fail-safe operation due to intelligent thermoelectric tempering

727 Litre



Energy consumption is minimal thanks to optimized thermoelectric cooling

Since 1967







Series KB PRO | with an extended temperature range

A temperature control cabinet that can do it all, the KB PRO is our most powerful cooling incubator. With a temperature range of -20°C to +100°C and comprehensive programming options, it covers a wide range of applications that extend well beyond incubation. Optional light modules are also available to turn the KB PRO into a chamber for ICH photostability testing or plant growth.





ICH-Lighting module

Light cassettes and supply module for upgrading a cooling incubator to a photostability test chamber. Can be retrofitted in two versions with or without light sensors for light dose control (LQC). Complies with ICH guideline Q1B. KB PRO 260, 470, 720



CO2 Gassing module

The free-standing units in the KB PRO series can be retrofitted with a CO2 gassing module. Control ranges 0-1 vol.-% CO2 for plants or 0-20 vol.-% CO2 for cell cultures. KB PRO 260, 470, 720

Plant Lighting module



LED light strips with supply module and control unit for the three light channels warm white, cool white and dark red. The light strips can be positioned flexibly and are attached to standard slide-in grids. KB PRO 260, 470, 720 1060, 1600

Features:

- Temperature range: -20°C to +100°C
- Cooling with climate-neutral R-290 refrigerant
- Two racks with stainless-steel telescopic rails
- Intuitive touchscreen controller with time-segment and real-time programming
- Signal triangle with light-up status display (for units with a volume of 470 liters and above)
- Proven APT.line[™] preheating chamber technology
- Energy-efficient cooling with modern inverter cooling unit
- Door heating to prevent condensation
- Adjustable fan speed
- Housing design with HIT technology
- Stainless-steel inner chamber
- Inner doors made of metal oxide-coated safety glass
- Large access port with silicone plug
- Floor-standing units featuring robust twin casters with brakes at the front
- Stackable tabletop units with a volume of up to 130 liters
- Ergonomically adjustable control terminal (for units with a volume of 470 liters and above)
- Signal triangle with light-up status display (for units with a volume of 470 liters and above)
- Internal data logger, measured values can be read out in open format via USB
- Class 3.3 independent temperature safety device (DIN 12880) with visual and acoustic alarms
- Unit self-test for comprehensive status analysis
- Data interfaces: Ethernet, USB
- BINDER Multi Management Software APT-COM[™] basic edition
- Optional light modules for ICH photostability testing (for models 260, 470, 720)
- Optional LED light modules for plant growth (for models from 260)



Available sizes: KB PRO 130 | KB PRO 260 | KB PRO 470 | KB PRO 720 | KB PRO 1060 | KB PRO 1600 model

Environmental testing

Product development and quality assurance are primarily focused on complying with and monitoring performance specifications. Endurance tests and functional tests of materials, products, and systems are essential elements in this. A climate chamber is expected to simulate the effects of temperature, humidity, and light on the test specimen.

With these specific requirements in mind, BINDER offers a range of constant climate chambers that are ideal for performing precise tests with long-term stability. In cases where dynamic climate changes are required, our dynamic climate chambers offer innovative technical solutions and extensive equipment options. They are perfectly aligned with standards or individual requirements, and ensure that either active or passive test specimens can be tested reliably.



Stability tests KBF | KBF-S ECO | KBF-PRO KB | KB-S-ECO | KB-PRO

Walk-in-chambers | WIC

Material tests Dynamic climate chambers MK | MKT | MKF | MKFT

Constant Climatic Chambers:

(Humidity Chambers, Stability Chambers, Walk-in Chambers)

Constant climate chambers simulate temperature and humidity and are mainly used for environmental simulation tests to determine the service life and durability of products, materials, etc. They are used in different sectors, such as the pharmaceutical industry, the food industry, and the cosmetics industry, as well as in research.

Constant climate chambers play a key role in the execution of ICH stability testing, which is an important prerequisite for approving drugs. For this, the units must maintain the predefined climate parameters exactly and ensure smooth, reliable continuous operation. Important factors when choosing a constant climate chamber are heating and cooling technology, air flow, water management, and light.

BINDER offers a broad range of climate chambers for different types of environmental simulation tests, from long-term stability testing and accelerated shelf-life testing right through to demanding stress tests.

ICH light system

When combined with the new ICH light modules, our latest generation of climate chambers become photostability test chambers.

The light spectra fulfill the requirements of ICH guideline Q1B, Option 2. Modern LED technology is used for visible light. However, the UVA range cannot be covered with the current LED technology in accordance with ICH, which explains the use of fluorescent tubes.

The irradiance levels are designed so that a complete test can be carried out in three days. The light intensities were deliberately limited to this level to avoid thermal effects during the photostability test.

The ICH light modules are available with or without light-dose control (LQC) and in two sizes. They can be combined with climate chambers from the KBF and KBF PRO series in sizes 260, 470, and 720. For ICH photostability tests without humidity, the light modules can be combined with units from the KB PRO series.

Binder KBF & KBF Pro plant growth chamber is an enclosed climate chamber which generates a defined climate (temperature and humidity) and defined light conditions. In addition, a defined CO2 concentration may be useful or necessary.

In contrast to walk-in plant growth chambers (phytotrons) or greenhouses, isolated experiments can be carried out in plant growth chambers under precisely defined and reproducible conditions.

Providing the basis for BINDER plant growth chambers are climate chambers from the KBF and KBF PRO series with temperature and humidity control as well as refrigerated incubators from the KB PRO series. These basic units are equipped with retrofittable LED plant light modules: The control unit is attached to the exterior using supplied fastening elements and the LED strip lights are secured in the interior of the units as required using metal clips.

Recommended accessories for plant growth upgrade to KBF & KBF Pro requires, Rack sets for holding the LED strips, Optional specimen temperature controller sensor, CO2 gassing module from 0.05 vol. % to 1 vol. % CO2





Best conditions for your success





KBF Series – Constant Climatic Chambers

The proven specialist for reliable ICH stability tests in the pharmaceutical industry: the KBF masters all long-term tests, accelerated tests and stress tests. It fulfills all important ICH requirements, from precision to programming and documentation. With flexible water supply options for all installation locations. In addition, the new KBF consumes up to 40 % less energy than its predecessor. With optional light modules, the KBF can be converted into an ICH photostability chamber and a plant growth chamber.





ICH-Lighting module

Light cassettes and supply module for upgrading a cooling incubator to a photostability test chamber. Can be retrofitted in two versions with or without light sensors for light dose control (LQC). Complies with ICH guideline Q1B. KB PRO 260, 470, 720



CO2 Gassing module

The free-standing units in the KB PRO series can be retrofitted with a CO2 gassing module. Control ranges 0-1 vol.-% CO2 for plants or 0-20 vol.-% CO2 for cell cultures. KB PRO 260, 470, 720

Plant Lighting module

LED light strips with supply module and control unit for the three light channels warm white, cool white and dark red. The light strips can be positioned flexibly and are attached to standard slide-in grids. KB PRO 260, 470, 720 1060, 1600

Features:

- Temperature range: 0°C to +70°C
- Humidity range: 10% to 80% RH
- Up to 40% lower energy consumption compared to the previous model
- Cooling with climate-neutral R-600a refrigerant
- Two racks with stainless-steel telescopic rails
- Signal triangle with light-up status display (for units with a volume of 470 liters and above)
- Proven APT.line[™] preheating chamber technology
- Energy-efficient cooling with modern inverter cooling unit
- Door heating to prevent condensation
- Adjustable fan speed
- Humidity regulation with capacitive humidity sensor and responsive steam humidification
- Housing design with HIT technology
- Stainless-steel inner chamber
- Inner doors made of metal oxide-coated safety glass
- Large access port with silicone plug
- Floor-standing units featuring robust twin casters with brakes at the front
- Stackable tabletop units with a volume of up to 130 liters
- Intuitive touchscreen controller with time-segment and real-time programming
- Ergonomically adjustable control terminal (for units with a volume of 470 liters and above)
- Internal data logger, measured values can be read out in open format via USB
- Class 3.3 independent temperature safety device (DIN 12880) with visual and acoustic alarms
- Unit self-test for comprehensive status analysis
- Data interfaces: Ethernet, USB
- BINDER Multi Management Software APT-COM[™] basic edition
- Optional light modules for ICH photostability testing (for models 260, 470, 720)
- Optional LED light modules for plant growth (for models from 260)



TFT color display with resistive touchscreen



Since 1967

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Available sizes: KBF 130 | KBF 260 | KBF 470 | KBF 720 | KBF 1060 | KBF 1600 model



Available sizes: KBF PRO 130 | KBF PRO 260 | KBF PRO 470 | KBF PRO 720 | KBF PRO 1060 | KBF PRO 1600 model

472 Litre

KBF-PRO Series – Constant Climatic Chambers

Stability Chambers, Humidity Chambers, Plant Growth Chambers, Photostability Chambers)

A powerful all-rounder among constant climate chambers: Equipped with all kinds of sophisticated technology, the KBF PRO takes any material test in its stride – whether it takes place at -20°C or under THB conditions at +85°C and 85% relative humidity. It offers flexible water supply options for all installation sites and consumes up to 40% less energy than its predecessor, the KMF model. Optional light modules are also available to turn the KBF PRO into a chamber for ICH photostability testing or plant growth.





ICH-Lighting module

Light cassettes and supply module for upgrading a cooling incubator to a photostability test chamber. Can be retrofitted in two versions with or without light sensors for light dose control (LQC). Complies with ICH guideline Q1B. KB PRO 260, 470, 720

The free-standing units in the KB PRO series can be

ranges 0-1 vol.-% CO2 for plants or 0-20 vol.-% CO2

retrofitted with a CO2 gassing module. Control

-

Plant Lighting module

CO2 Gassing module

for cell cultures. KB PRO 260, 470, 720

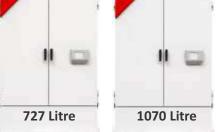
LED light strips with supply module and control unit for the three light channels warm white, cool white and dark red. The light strips can be positioned flexibly and are attached to standard slide-in grids. KB PRO 260, 470, 720 1060, 1600

Features:

- Temperature range: -20°C to +100°C
- Humidity range: 10% to 98% RH
- Up to 40% lower energy consumption compared to the previous model
- Cooling with climate-neutral R-290 refrigerant
- Two racks with stainless-steel telescopic rails
- Signal triangle with light-up status display (for units with a volume of 470 liters and above)
- Proven APT.line[™] preheating chamber technology
- Energy-efficient cooling with modern inverter cooling unit
- Door heating to prevent condensation
- Adjustable fan speed
- Humidity regulation with capacitive humidity sensor and responsive steam humidification
- Housing design with HIT technology
- Stainless-steel inner chamber
- Inner doors made of metal oxide-coated safety glass
- Large access port with silicone plug
- Floor-standing units featuring robust twin casters with brakes at the front
- Stackable tabletop units with a volume of up to 130 liters
- Intuitive touchscreen controller with time-segment and real-time programming
- Ergonomically adjustable control terminal (for units with a volume of 470 liters and above)
- Internal data logger, measured values can be read out in open format via USB
- Class 3.3 independent temperature safety device (DIN 12880) with visual and acoustic alarms
- Unit self-test for comprehensive status analysis
- Data interfaces: Ethernet, USB
- BINDER Multi Management Software APT-COM[™] basic edition
- Optional light modules for ICH photostability testing (for models 260, 470, 720)
- Optional LED light modules for plant growth (for models from 260)











Best conditions for your success



KBF-ECO Solid Line Series – Constant Climatic Chambers

Thanks to thermoelectric cooling technology with patented heat dissipation, the new KBF-S ECO climatic chamber is one of the most energy-efficient constant climate chambers on the market.

The thermoelectric cooling technology means the KBF-S ECO series is also very quiet during operation.



Features:

- Temperature range: 0 °C to +70 °C (max. 24 °C under ambient temperature)
- Humidity range: 10% to 80% RH
- Particularly energy-efficient thanks to thermoelectric cooling technology
- Environmentally-friendly operation without refrigerants
- Independent water supply via tank
- APT.line[™] preheating chamber technology
- Independent water supply via tank
- LCD to display temperature and humidity along with additional information and alarms
- Internal data logger, measured values can be read out in open format via USB
- Unit self-test for comprehensive status analysis
- Inner chamber made completely of stainless steel
- 2 stainless steel racks, including shelf carrier
- Access port with silicone plug Ø 30 mm, left
- Computer interface: Ethernet





Homogeneous climate conditions thanks to APT.line[™] preheating chamber technology



Precise humidification



Inner chamber and all fixtures made of stainless steel



Stable climate even at temperatures up to 28°C below ambient temperature







Available sizes: KBF-S ECO 240 | KBF-S ECO 400 | KBF-S ECO 720 | KBF-S ECO 1020 model

BINDER Best conditions for your success

Features:

- Seamless inner chamber made of stainless steel with flanges as shelf support system
- Auto-sterilization with hot air at +180°C
- Hot air sterilizable CO₂ sensor with single-beam infrared technology
- Condensation-free humidity control with Perma dry double water pan
- Touchscreen controller with internal data recording via USB interface
- Optimized double-pan humidification system with condensation protection
- Tried-and-tested anti-contamination concept with 180°C hot air sterilization
- Hot-air sterilizable CO₂ sensor with single-beam infrared technology
- Seamless inner chamber made of stainless steel with flanges as shelf support system
- Fanless interior with Venturi CO₂ gas mixing nozzle
- Intuitive touchscreen controller
- Internal data recording, can be read out in open format via USB interface
- Fault diagnosis system with visual and acoustic alarm
- Interfaces: Ethernet, USB, zero-voltage alarm contact
- Fail-safe CO₂ system for protecting the pH of cell cultures

Options:

- O₂ control with O₂ control ranges: 0.2 to 20 vol.% O₂ or 10 to 90 vol.% O₂
- Multi-sectional glass doors with special shelves for dividing up the space to accommodate different experiments • Stacking adapter for secure, space-saving installation
- Gas tank changer for connecting two gas tanks to one or two incubators



CB Series – CO2 Incubators

assortment of options and accessories.

Variable positionable and removable illumination cassettes



Permadry™ humidification system with double pan





Sterilizable IR CO2 sensor and Venturi gas-mixing nozzle





DuoDoor[™] – outer and inner door open at the same time





CO2 fail-safe for emergency control in the event of sensor failure

Since 1967



CBF Series – CO2 Incubators

The BINDER CBF is the high-end CO₂ incubator with humidity control that is suitable for all sensitive incubation applications in GMP environments. It ensures consistent results including in cell-based assays with multiwell plates. This BINDER incubator is even suitable for complex cultivation experiments or individual environments with hypoxic conditions thanks to its comprehensive assortment of options and accessories.



Features:

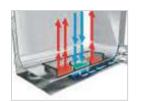
- Seamless stainless steel inner chamber
- Auto-sterilization with hot air at +180°C
- Hot air sterilizable CO₂ sensor with single-beam infrared technology
- Unparalleled moisture control speed and safety thanks to superheated steam humidification
- Touchscreen controller with internal data recording via USB interface
- Contamination-safe humidification system without water pan
- Tried-and-tested anti-contamination concept with 180 °C hot air sterilization
- Hot-air sterilizable CO₂ sensor with single-beam infrared technology
- Seamless inner chamber made of stainless steel with flanges as shelf support system
- Fanless interior with Venturi CO₂ gas mixing nozzle
- Intuitive touchscreen controller
- Internal data logger, measured values can be read out in open format via USB
- Troubleshooting system with visual and acoustic alarms
- Interfaces: Ethernet, USB, zero-voltage alarm contact
- Fail-safe CO₂ system for protecting the pH of cell cultures

Options:

- O_2 control with O_2 control ranges: 0.2 to 20 vol.% O_2 or 10 to 90 vol.% O_2
- Multi-sectional glass doors with special shelves for dividing up the space to accommodate different experiments
- Stacking adapter for secure, space-saving installation
- Gas tank changer for connecting two gas tanks to one or two incubators



Contamination-proof humidification system without water pan



Permadry™ humidification system with double pan



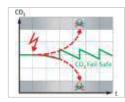
Sterilizable IR CO2 sensor and Venturi gas-mixing nozzle



DuoDoor™ – outer and inner door open at the

same time

267 Litre



CO2 fail-safe for emergency control in the event of sensor failure



Available sizes: CBF 170 | CBF 260 model

The durable and affordable CB-S series incubators are suitable for routine cell cultivation applications in the field of cell production, particularly in academic settings. They are contamination-proof due to 180°C hot air sterilization and reliably pH-stable thanks to the

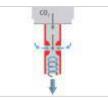
BINDER Best conditions for your success



- Seamless stainless steel inner chamber
- Auto-sterilization with hot air at +180°C
- CO2 sensor with infrared technology
- Condensation-free humidity control with water pan
- Internal data logger, can be read out via USB interface
- Temperature range: +6°C above ambient temperature to +50°C
- Humidity range: 90 to 95% RH
- CO₂ control range: 0 to 20 vol.% CO₂
- Tried-and-tested anti-contamination concept with 180°C hot air sterilization
- Humidification system with condensation protection
- CO2 gas mixing jet with Venturi effect
- LCD to display temperature and CO2 along with additional information and alarms
- Internal data logger, measured values can be read out in open format via USB
- Tightly fitted inner door made of safety glass
- Seamless stainless steel inner chamber
- Perforated shelves, stainless steel
- Troubleshooting system with visual and acoustic alarms
- Interfaces: Ethernet, USB, zero-voltage alarm contact
- Units can be stacked with stacking adapters; the CB-S is suitable for stacking with CB and CBF models of the same size



Variable positionable and removable illumination cassettes



Sterilizable IR CO2 sensor and Venturi gas-mixing nozzle





Available sizes: CB-S 170 | CB-S 260 model

Options:

- Copper interior fittings consisting of copper shelves and copper-plated water pan
- Stacking adapter for secure, space-saving installation

CB-S Series – CO2 Incubators

drift-free infrared CO₂ measurements conducted in real time.

- CO₂ gas tank changer for connecting two gas tanks to one or two incubators
- CO₂ shaker with corrosion-resistant components in a stainless-steel housing
- APT-COM Multi Management Software for managing, recording, and documenting unit parameters
- Services wide range of services to ensure that the unit functions correctly

ULTRA LOW TEMPERATURE FREEZERS





BINDER

Best conditions for your success

Series UF V | Ultra low temperature freezers with climateneutral refrigerants

The BINDER ultra low temperature freezer ensures the safe storage of samples at -90 °C. It combines outstanding environmental friendliness with low energy consumption, convenient operation and an individual safety concept

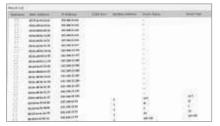
- Temperature range: -90 °C to -40 °C
- Lowest energy consumption in its class
- Powerful cascade compressor cooling unit
- Environmentally friendly refrigerants R-290 and R-170
- Thermal insulation with unique long-life VIPs (vacuum insulation panels)
- Innovative door gasket concept reduces buildup of ice
- Ergonomic door handle
- Rust-proof interior made completely of stainless steel
- Detachable inner doors made of stainless steel
- Stainless-steel shelves providing flexible placement
- Water cooling (UFV 500 / UFV 700)
- Zero-voltage alarm contact for in-house alarm system
- Internal data logger, measured values can be read out in open format via USB
- Ethernet interface
- Access ports, Ø 28 mm, rear

Description	UFV 350	UFV 500	UFV 700
Housing Dimensions not incl. fittings and connections (D x H x W) mm	938 x 1966 x 706	938 x 1966 x 826	938 x 1966 x 1110
Internal Dimensions (D x H x W) mm	605 x 1300 x 486	605 x 1300 x 606	605 x 1300 x 890
Measures			
Interior volume [L]	382	477	700
Net weight of the unit (empty) [kg]	226	247	288
Permitted load [kg]	160	200	200
Performance Data Temperature			
Temperature range [°C]	-9040	-9040	-9040
Temperature variation at -80 °C [± K]	3.5	2.5	2.5
Temperature fluctuation at -80 $^{\circ}$ C [± K]	3.5	1.5	1.5
Warm-up time during power failure from -80 °C to -60 °C [min]	170	230	250
Electrical data			
Nominal power (version 230 V) [kW]	1.6	1.6	1.6
Fixtures			
Number of shelves (std./max.)	3/13	3/13	3/13

APT.COM[™] 4 SOFTWARE



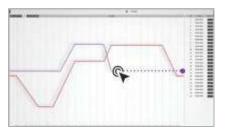




QUICK AND EASY UNIT SETUP

Easy identification of the units to be set up with the aid of the article number. This means the units can be found in a matter of seconds and recording can begin.

Multiple units can easily be set up in just a few clicks.



EASY PROGRAMMING

Programming can be carried out directly in the graphic or by entering values manually in table form.

It is not possible for the set values to exceed limit values as the parameters are already preset in the unit setup.



UNIT OVERVIEW AND CONTROL AT A GLANCE

The overview displays the actual values and current measurements, making it easier to access the units and keep track of them. Limit values can also be set in this view. The Rec button can be used to startrecordings immediately.



DATA EXPORT AND GLP-COMPLIANT DATA RETENTION

A comprehensive report can be generated as a PDF or CSV file at the push of a button. The data is retained in a tamper-proof, GLP-compliant manner. All processes aredocumented in full without any gaps in the system log (audit trail).



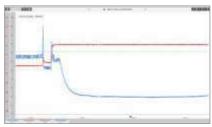
Best conditions for your success

With features ranging from GLP-compliant recording to convenient program creation and management of up to 100 units, the APT-COMTM 4 can be used in all industries and makes complex work processes much easier.

The new version of Multi Management Software APT-COM[™] 4 is available in three different editions.

Depending on your requirements, you can use the BASIC, PROFESSIONAL, or GLP edition. The selection of functions ranges from simple record management and administration for around 100 connected environmental simulation chambers through to the tamper-proof documentation of measured values according to GLP/GMP guidelines, which correspond to the requirements of the FDA Regulation 21 CFR 11.

- Central overview of all units in both graphic and table form
- Record management (creating, deleting, archiving)
- Choice of 5 menu languages: DE, EN, FR, IT, ES
- Graphical/numerical program editor
- Reminders can be set via timer function
- Documentation of measured values
- Export of measured values in CSV & amp; PDF format
- Program execution via APT-COM[™]
- Central overview of all units in a room plan (PROFESSIONAL, GLP edition)
- User administration for multiple users and authorizations (PROFESSIONAL, GLP edition)
- GLP/GMP-compliant data retention (GLP edition)
- Audit trail (GLP edition)



DIVERSE PRESENTATION OF MEASURED DATA

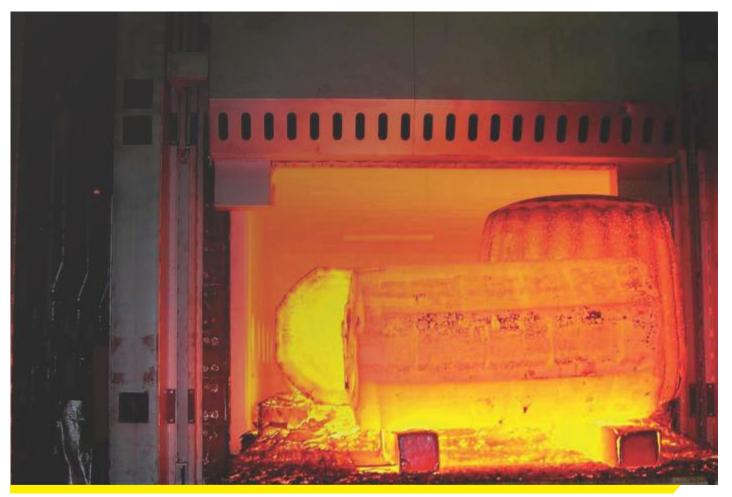
The analysis tool provides access to all records in real time and around the clock. The data can be displayed in table form or as a graphic and the view can be individually adjusted to personal needs. Measurement data from multiple units can be combined and clearly displayed in metadata records.



RELIABLE UNIT MONITORING

The alarm centre simplifies the management of up to 100 BINDER units and their data. Searches, configuration and monitoring are synchronized and available in the GLP edition.





LABORATORY FURNACE



AmketteAnalytics

CONTROLLER 500 SERIES

The controller series 500 impresses with its high-contrast, large touch panel, which shows exactly the information that is relevant at the moment. With a combination of the free "MyNabertherm" smartphone app for monitoring of the furnace on-the-go.



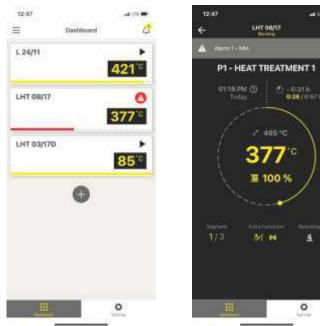
MORE THAN HEAT 30-3000 °C



Feature	B500/B510	C540/C550	P570/P580
Number of programs	5	10	50
Segments	4	20	40
Extra functions (e. g. fan or automatic flaps) maximum	2	2	2-6
Maximum number of control zones	1	1	3
Charge control/bath control			•
Auto tune	•	•	•
Real-time clock	•	•	•
Status messages in clear text	•	•	•
Entering program names (i.e. "Sintering")	•	•	•
User levels	•	•	•
Skip-button for segment jump	•	•	•
Program entry in steps of 1 °C or 1 min.	•	•	•
Start time configurable (e. g. to use night power rates)	•	•	•
Set point output	•	•	٠

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MyNabertherm App



MyNabertherm app – the powerful and free digital accessory for Nabertherm 500 Series Controllers. Use the app for convenient online progress monitoring of your Nabertherm furnaces from wherever you wish.

App Features

- Convenient monitoring of one or multiple Nabertherm furnaces simultaneously with graphical representation of the program progress
- Clear presentation of active and inactive furnace on a dashboard with operating status and current process data
- Push notification on the lock screen in case of malfunction
- Display of malfunctions with an associated description in the individual overview and in a message list
- Display of furnace name, program name, segment information, start time, program run time, remaining run time, fresh-air fan, exhaust air flap, gassing, etc.

SOFTWARE

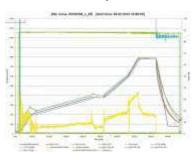


NTLog Basic:

- Records process data from Nabertherm Controllers (B500, B510, C540, C550, P570, P580) on a USB stick.
- Data stored on USB stick (up to 130,000 records in CSV format) for later evaluation on PC using NTGraph.
- Generated data records on USB stick have checksums for protection against accidental manipulation.

2. NTGraph (Freeware):

- Visualizes process data generated by NTLog.
- Allows data import and presentation as diagrams, tables, or reports with customizable design.



abertherm

MORE THAN HEAT 30-3000 °C

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- 3. NTEdit (Freeware):
- Simplifies input of programs for Nabertherm Controllers (B500, B510, C540, C550, P570, P580) via USB stick from customer's PC
- Display of set curves in tabular or graphical form.

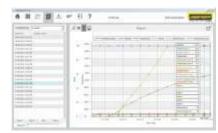
4. VCD-software:

- Ideal for single or multi-furnace systems, providing documentation and reproducibility for quality assurance.
- Allows storage of up to 400 different heat treatment programs.
- Can control Furnace and record data, with process documentation and archiving, with visualization in the form of a diagram data table
- Export to CSV or PDF.
- Compatible with controllers series 500, series 400, Eurotherm 3504, and other Nabertherm controllers.

Nuber therm controllers.				
Features	NTLog Basic	NTGraph	NTEdit	VCD
Data Recording	•			•
Data Visualization		•		٠
Program Creation			Yes via USB	Yes via Ethernet
Control				٠
Mode of Communication	Internal	USB Stick	USB Stick	Ethernet
Archival of Data	Up to 130,000 Records			Unlimited (as per space in PC)
PC Compatibility		via USB Stick	via USB Stick	via Ethernet

HEATING ELEMENT

	Temp. Range	Heating Element (Muffle Furnace)	Series
		Ferritic Alloy (AF Wire) integrated in quartz glass tube	LE
	Upto 1100°C	Ferritic Alloy (AF Wire) integrated in Ceramic heating plate	LV/LVT
No. 196	Upto 1300°C	Ferritic Alloy (AF Wire) integrated in Ceramic heating plate	L/LT
	Upto 1600°C	Silicon Carbide (SiC)	LHTC/LHTCT
and the second se	Upto 1800°C	Molybdenum Disilicide (MoSi2)	LHT/HT
No. of Concession, Name	Temp. Range	Heating Element (Tube Furnace)	Series
Statements of the second statement of the second state	Upto 1300°C	Ferritic Alloy (AF Wire)	R
and the second se	opto 1500 C	Ferritic Alloy (AF Wire) integrated in quartz glass tube	RSH/RSV
	Upto 1500°C	Silicon Carbide (SiC)	RHTC
	Upto 1800°C	Molybdenum Disilicide (MoSi2)	RHTH/RHTV



MUFFLE FURNACE



Lift Door

Tmax 1100°C to 1800°C

• Heating from two sides up to five sides for an optimal temperature uniformity

Amkette Analytics

abertherm

MORE THAN HEAT 30-3000 °C

- Temperature uniformity of +/- 5 K with closed fresh-air inlet in empty work space according to DIN 17052-1 at working temperatures above 800°C
- Fast heating times
- Dual shell housing made of textured stainless steel sheets with additional fan cooling for low surface temperature
- Exclusive use of insulation materials without categorization according to EC Regulation No. 1272/2008 (CLP)
- Adjustable air inlet integrated in door
- Exhaust air outlet in rear wall (select model)
- Compact dimensions and light weight
- Solid state relays provide for low noise operation
- Defined application within the constraints of the operating instructions
- NTLog Basic for Nabertherm controller: recording of process data with USB-flash drive
- Multi-layer insulation with robust lightweight refractory bricks in the furnace chamber
- Optional Flap door which can be used as work platform or Lift door with hot surface facing away from the operator





Manual Gas Supply System



Chimney with Fan





MORE THAN HEAT 30-3000 °C

Model	Tmax (°C¹)	Volume (l)	Inner dimensions w x d x h (mm)	Connected load (kW)	Electrical connection	Heating time in (min⁴)
LE 1/11	1100	1	90 x 115 x 110	1.6	1-phase	10
L 1/12	1200	1	90 x 115 x 110	1.5	1-phase	25
LHT 01/17 D	1650	1	110 x 120 x 120	2.9	1-phase	35
LHTC 01/16	1550	1.5	110 x 120 x 120	3.5	1-phase	30
LHT 02/16	1600	2	90 x 150 x 150	3.0	1-phase	30
LHT 02/17	1750	2	90 x 150 x 150	3.0	1-phase	35
LHT 02/18	1800	2	90 x 150 x 150	3.6	1-phase	60
L(T) 3/11	1100	3	160 x 140 x 100	1.2	1-phase	40
L(T) 3/12	1200	3	160 x 140 x 100	1.2	1-phase	45
LHTC(T) 03/16	1600	3	120 x 210 x 120	10.0	3-phase	30
LHT 04/16	1600	4	150 x 150 x 150	5.2	3-phase	25
LHT 04/17	1750	4	150 x 150 x 150	5.2	3-phase	30
LHT 04/18	1800	4	150 x 150 x 150	5.2	3-phase	40
L(T) 5/11	1100	5	200 x 170 x 130	2.4	1-phase	50
L(T) 5/12	1200	5	200 x 170 x 130	2.4	1-phase	60
L. LT 5/13	1300	5	200 x 170 x 130	2.4	1-phase	60
L. LT 5/14	1400	5	200 x 170 x 130	2.4	1-phase	50
LE 6/11	1100	6	170 x 200 x 170	2.0	1-phase	30
LHT 08/16	1600	8	150 x 300 x 150	8.0	3-phase	25
LHTC(T) 08/16	1600	8	170 x 290 x 170	15.5	3-phase	25
LHT 08/17	1750	8	150 x 300 x 150	8.0	3-phase	30
LHT 08/18	1800	8	150 x 300 x 150	9.0	3-phase	40
L(T) 9/11	1100	9	230 x 240 x 170	3.0	1-phase	65
L(T) 9/12	1200	9	230 x 240 x 170	3.0	1-phase	75
L, LT 9/13	1300	9	230 x 240 x 170	3.0	1-phase	60
L, LT 9/14	1400	9	250 x 250 x 170	3.2	1-phase	50
LE 14/11	1100	14	220 x 300 x 220	3.2	1-phase	35
L(T) 15/11	1100	15	230 x 340 x 170	3.2	1-phase	75
L(T) 15/12	1200	15	230 x 340 x 170	3.2	1-phase	85
L, LT 15/13	1300	15	230 x 340 x 170	3.2	1-phase	70
L. LT 15/14	1400	15	250 x 350 x 170	3.2	1-phase	70
L(T) 24/11	1100	24	280 x 340 x 250	4.5	3-phase	70
LE 24/11	1100	24	260 x 330 x 280	3.5	1-phase	40
L(T) 24/12	1200	24	280 x 340 x 250	4.5	3-phase	80
L(T) 40/11	1100	40	320 x 490 x 250	6.0	3-phase	75
L(T) 60/11	1100	60	380 x 490 x 330	9.8	3-phase	150
L(T) 60/12	1200	60	380 x 490 x 330	9.8	3-phase	160

¹ Recommended working temperature is 100°C Below Tmax

 $^{\rm 4}$ Heating time of the empty and closed furnace up to Tmax –100 K





Rectangular / Square Saggar



Ceramic Collecting Pan

Air Circulation

Air Inlet & Exhaust Flow

Model	Tmax	Volume	Inner dimensions	Max. evaporation	Connected	Electrical	Heating time
	(°C¹)	(I)	wxdxh (mm)	rate (g/min)	load (kW)	Connection	(min⁴)
LV 3/11	1100	3	160 x 140 x 100	0.1	1.2	1-phase	45
LVT 3/11	1100	3	160 x 140 x 100	0.1	1.2	1-phase	45
LV 5/11	1100	5	200 x 170 x 130	0.2	2.4	1-phase	55
LVT 5/11	1100	5	200 x 170 x 130	0.2	2.4	1-phase	55
LV 9/11	1100	9	230 x 240 x 170	0.3	3.0	1-phase	70
LVT 9/11	1100	9	230 x 240 x 170	0.3	3.0	1-phase	70
L 9/11 BO	1100	9	230 x 240 x 170	1.0	7.0	3-phase	120
LV 15/11	1100	15	230 x 340 x 170	0.3	3.5	1-phase	80
LVT 15/11	1100	15	230 x 340 x 170	0.3	3.5	1-phase	80
L 24/11 BO	1100	24	280 x 340 x 250	2.0	9.0	3-phase	120
L 40/11 BO	1100	40	320 x 490 x 250	2.1	11.5	3-phase	120

¹ Recommended working temperature is 100°C Below Tmax

⁴ Heating time of the empty and closed furnace up to Tmax –100 K

TUBE FURNACE



MORE THAN HEAT 30-3000 °C

- Tmax 1200 °C to 1800 °C
- Single-zoned design / three-zoned design
- Dual shell housing made of textured stainless steel sheets with additional fan cooling for low surface temperature
- Exclusive use of insulation materials without categorization according to EC Regulation No. 1272/2008 (CLP)
- Outer tube diameter ranging from 50 mm to 170 mm and heated length ranging from 250 mm to 1000 mm
- Solid state relays provide for low noise operation
- Defined application within the constraints of the operating instructions
- NTLog Basic for Nabertherm controller: recording of process data with USB-flash drive
- Ceramic working tube including two fiber plugs for operation under air
- Active cooling of housing for low surface temperatures (select models)

Model	Tmax	Outer tube Ø	Heated Length	Tube length	Connected load	Electrical
2 50/250/40	(°C)	(mm)	(mm)	(mm)	(kW)	Connection
R 50/250/12	1200	50	250	450	1.6	1-phase
R 50/500/12	1200	50	500	700	2.3	1-phase
R 120/500/12	1200	120	500	700	6.5	3-phase
R 170/750/12	1200	170	750	1070	10.0	3-phase
R 170/1000/12	1200	170	1000	1400	11.5	3-phase
R 50/250/13	1300	50	250	450	1.6	1-phase
R 50/500/13	1300	50	500	700	2.3	1-phase
R 120/500/13	1300	120	500	700	6.5	3-phase
R 170/750/13	1300	170	750	1070	10.0	3-phase
R 170/1000/13	1300	170	1000	1400	11.5	3-phase
RHTC 80/230/16	1600	80	230	600	7.5	3-phase
RHTC 80/450/16	1600	80	450	830	11.3	3-phase
RHTC 80/710/16	1600	80	710	1080	13.8	3-phase
RHTV 50/150/16	1600	50	150	380	5.4	3-phase
RHTV 80/300/16	1600	80	300	530	10.3	3-phase
RHTV 120/600/16	1600	120	600	830	19.0	3-phase
RHTH 50/150/17	1700	50	150	380	5.4	3-phase
RHTH 80/300/17	1700	80	300	530	9.0	3-phase
RHTH 120/600/17	1700	120	600	830	14.4	3-phase
RHTV 50/150/17	1700	50	150	380	5.4	3-phase
RHTV 80/300/17	1700	80	300	530	10.3	3-phase
RHTV 120/600/17	1700	120	600	830	19.0	3-phase
RHTH 50/150/18	1800	50	150	380	5.4	3-phase
RHTH 80/300/18	1800	80	300	530	9.0	3-phase
RHTH 120/600/18	1800	120	600	830	14.4	3-phase
RHTV 50/150/18	1800	50	150	380	5.4	3-phase
RHTV 80/300/18	1800	80	300	530	10.3	3-phase
RHTV 120/600/18	1800	120	600	830	19.0	3-phase

Tube Furnace

SPLIT-TYPE TUBE FURNACE





MORE THAN HEAT 30-3000 °C

- Tmax 1100°C or 1300°C
- Single-zoned design

•

- Dual shell housing made of textured stainless steel sheets with additional fan cooling for low surface temperature
- Exclusive use of insulation materials without categorization according to EC Regulation No. 1272/2008 (CLP)
- RSV models with frame for vertical operation
- Split-type design for simple insertion of the working tube (opening temperature < 180°C)
- Ceramic working tube C 530 including two fiber plugs for operation under air
- Thermocouple type N (1100°C) or type S (1300°C)
- Solid state relays provide for low noise operation
- Heating elements on support tubes provide for free radiation
- RSH: switchgear and control unit integrated in furnace housing
- RSV: switchgear and control unit separate from furnace in own wall or standing cabinet
- Defined application within the constraints of the operating instructions
- NTLog Basic for Nabertherm controller: recording of process data with USB-flash drive
- Controller B510

Model	Tmax	Outer tube Ø	Heated Length	Tube length	Connected	l load⁴ (kW)	Electrical
	(°C)	(mm)	(mm)	(mm)	1100°C	1300°C	Connection
RSH 50/250/11	1100	50	250	650	1.9	1.9	1-phase
RSH 50/500/11	1100	50	500	850	3.4	3.4	1-phase
RSH 80/500/11	1100	80	500	850	6.6	6.6	3-phase
RSH 80/750/11	1100	80	750	1100	10.6	12.0	3-phase
RSH 120/500/11	1100	120	500	850	6.6	6.6	3-phase
RSH 120/750/11	1100	120	750	1100	10.6	12.0	3-phase
RSH 120/1000/11	1100	120	1000	1350	13.7	13.7	3-phase
RSH 170/750/11	1100	170	750	1100	10.6	12.0	3-phase
RSH 170/1000/11	1100	170	1000	1350	13.7	13.7	3-phase
RSV 50/250/11	1100	50	250	650	1.9	1.9	1-phase
RSV 50/500/11	1100	50	500	850	3.4	3.4	3-phase
RSV 80/500/11	1100	80	500	850	6.6	6.6	3-phase
RSV 80/750/11	1100	80	750	1100	10.6	12.0	3-phase
RSV 120/500/11	1100	120	500	850	6.6	6.6	3-phase
RSV 120/750/11	1100	120	750	1100	10.6	12.0	3-phase
RSV 120/1000/11	1100	120	1000	1350	13.7	13.7	3-phase
RSV 170/750/11	1100	170	750	1100	10.6	12.0	3-phase
RSV 170/1000/11	1100	170	1000	1350	13.7	13.7	3-phase
RSH 50/250/13	1300	50	250	650	1.9	1.9	1-phase
RSH 50/500/13	1300	50	500	850	3.4	3.4	1-phase
RSH 80/500/13	1300	80	500	850	6.6	6.6	3-phase
RSH 80/750/13	1300	80	750	1100	10.6	12.0	3-phase
RSH 120/500/13	1300	120	500	850	6.6	6.6	3-phase
RSH 120/750/13	1300	120	750	1100	10.6	12.0	3-phase
RSH 120/1000/13	1300	120	1000	1350	13.7	13.7	3-phase
RSH 170/750/13	1300	170	750	1100	10.6	12.0	3-phase
RSH 170/1000/13	1300	170	1000	1350	13.7	13.7	3-phase
RSV 50/250/13	1300	50	250	650	1.9	1.9	1-phase
RSV 50/500/13	1300	50	500	850	3.4	3.4	3-phase
RSV 80/500/13	1300	80	500	850	6.6	6.6	3-phase
RSV 80/750/13	1300	80	750	1100	10.6	12.0	3-phase
RSV 120/500/13	1300	120	500	850	6.6	6.6	3-phase
RSV 120/750/13	1300	120	750	1100	10.6	12.0	3-phase
RSV 120/1000/13	1300	120	1000	1350	13.7	13.7	3-phase
RSV 170/750/13	1300	170	750	1100	10.6	12.0	3-phase
RSV 170/1000/13	1300	170	1000	1350	13.7	13.7	3-phase

TUBES SELECTION

Nabertherm

MORE THAN HEAT 30-3000 °C

Material	Tube outside Ø in mm	Max. heat-up ramp in K/h	Tmax in air in °C	Tmax in vacuum operation in °C	Gas tight
C E 20 (Sillimontin)	< 120	unlimited	1300	not nossible	
C 530 (Sillimantin)	from 120	200	1300	not possible	
C(10) (Duthererse)	< 120	300	1400	1200	•
C 610 (Pythagoras)	from 120	200	1400	1200	•
C 799 (Alsint 99.7 %)	< 120	300	1800	1400	•
C 799 (AISIII 99.7 %)	from 120	200	1800	1400	•
Quartz glass	all	unlimited	1100	950	•
FeCrAl-Alloy (APM)	all	unlimited	1300	1100	•

GAS SUPPLY SYSTEM



Stainless Steel Flange

Model	Gas supply system			
	1	15	2	4
R	•	•	•	•
RHTC	•		•	•
RHTH			•	•
RHTV			•	•
RSH	•	•	•	•
RSV	•	•	•	•

- Supports non-flammable protective or reactive gas(N_2, Ar, He, CO_2, air, forming gas*) and Hydrogen gas
- Two vacuum-tight stainless steel flanges with KF flange on the outlet side
- Mounting system on furnace for the flanges
- Shut-off valve and flow meter with manual valve
- Check valve in the gas outlet to prevent air entering
- Additional safety controls to monitor hydrogen

Vacuum Package

- It consists of a ball valve, a pressure gauge and a manually operated vacuum pump that is connected to the gas outlet by a corrugated stainless steel hose
- The maximum ultimate pressure in the working tube depends on the type of pump.
 - Single-stage rotary vane pump for an achievable ultimate pressure of approx. 20 mbar
 - Two-stage rotary vane pump for an achievable ultimate pressure of approx. $5\,x\,10^{-2}$ mbar
 - Turbomolecular pump system for an achievable ultimate pressure of up to approx. $5\,x\,10^{\,-5}$ mbar



Since 1967

(54)

Vacuum Pump Manu

np Manual Gas Supply System

Gas Supply System 15

Gas Supply System 2

FORCED CONVECTION CHAMBER FURNACE



Forced Convection Chamber Furnace - Table Top



Forced Convection Chamber Furnace

Nabertherm

MORE THAN HEAT 30-3000 °C

- Tmax 450 °C, 650 °C, or 850 °C
- Horizontal air circulation with optimum distribution through stainless steel baffles
- Dual shell housing made of textured stainless steel sheets with additional fan cooling for low surface temperature
- Swing door hinged on the right side
- Temperature uniformity up to +/-4°Caccording to DIN17052-1 (model specific)
- Exclusive use of insulation materials without categorization according to EC Regulation No 1272/2008 (CLP). This explicitly means that alumino silicate wool, also known as "refractory ceramic fiber" (RCF), which is classified and possibly carcinogenic, is not used.
- Defined application within the constraints of the operating instructions
- Controller with touch operation B500/B510 (5 programs with 4 segments each)
- NTLog Basic for Nabertherm controller: recording of process data with USB-flash drive freeware
- NTEdit for convenient program input via Excel™ for Windows™ on the PC freeware
- NTGraph for evaluation and documention of firings using Excel[™] for Windows[™] on the PC·
- My Nabertherm App for online monitoring of the firing on mobile devices for free download

Model	Tmax	Volume	Inner dimensions	Heating Power	Electrical	Heat-up time
	(°C)	(i)	wxdxh (mm)	(kW)	Connection	to Tmax (min)
NAT 15/65	650	15	295 x 340 x 170	2.8	1-phase	40
NAT 15/85	850	15	320 x 320 x 150	3	1-phase	190
NAT 30/65	650	30	320 x 320 x 300	3	1-phase	80
NAT 30/85	850	30	320 x 320 x 300	3	1-phase	230
NAT 50/85	850	50	400 x 320 x 400	4.5	3-phase	230
NA 60/65	650	60	350 x 500 x 350	9.0	3-phase	120
NAT 60/65	650	60	400 x 400 x 400	3	1-phase	100
NA 60/85	850	60	350 x 500 x 350	9.0	3-phase	150
NA 120/45	450	120	450 x 600 x 450	9.0	3-phase	60
NA 120/65	650	120	450 x 600 x 450	12.0	3-phase	60
NA 120/85	850	120	450 x 600 x 450	12.0	3-phase	150
NA 250/45	450	250	600 x 750 x 600	12.0	3-phase	60
NA 250/65	650	250	600 x 750 x 600	20.0	3-phase	90
NA 250/85	850	250	600 x 750 x 600	20.0	3-phase	180
NA 500/45	450	500	750 x 1000 x 750	18.0	3-phase	60
NA 500/65	650	500	750 x 1000 x 750	27.0	3-phase	60
NA 500/85	850	500	750 x 1000 x 750	30.0	3-phase	180
NA 675/85	850	675	750 x 1200 x 750	30.0	3-phase	210

LABORATORY INSTRUMENTS



FEATURES



Designed for optimal cleaning

The hydraulic design maximizes flow and pressure through a single, direct fluid path. Each individual rack is connected to the hydraulic circuit without any intermediate accessories. This design ensures efficient and balanced high-pressure water distribution to remove soil for optimal cleaning.

Amkette Analytics



Interchangeable means flexibility

The Lancer Ultima Rack System is interchangeable among models. The most common racks fit on any of the wash levels without the need for adjustments. This allows for great flexibility and limits the need for additional accessories, reducing costs of ownership.

HYDRAULIC DESIGN

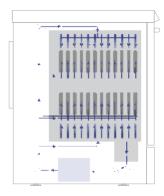
The Getinge Lancer Ultima hydraulic design optimizes pressure and flow for efficient performance at all wash levels.

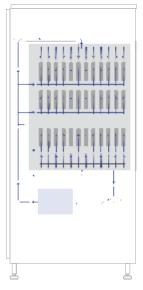
The combination of a high performance recirculation pump, straight-line fluid path and center-mounted rack interface assures maximum water flow through spray arms and injectors.

Washer pump is protected from debris by a stainless steel sump screen. The screen lifts out without tools for easy cleaning.



Ensure consistent pressure and flow





Undercounter Models

Freestanding Models

High performance in a compact footprint

The washer/dryers are designed for optimal cleaning performance. The hydraulic systems deliver a direct fluid path to each individual rack, maximizing water flow and pressure.

Ensure consistent pressure and flow

A tight connection to the hydraulic circuit ensures consistent water pressure and flow on each wash level. Lancer Ultima injector rack connections are strategically located in the rear of the chamber. The door pushes the racks against the circuit to form a secure connection.

Minimize environmental impact

Maximize cleaning performance while minimizing costs and environmental impact. Peristaltic pumps deliver accurate dosing of detergent and acid. Optional conductivity measurement ensures consistent processing with no chemical residues on processed goods.

Complete water coverage for comprehensive cleaning

Get complete coverage of both the exterior and interior of your glassware. Pressurized top and bottom stainless steel spray arms combine with injector washing on two levels for a comprehensive clean.

LANCER ULTIMA 815LX

Undercounter Glassware Washer-Dryer



- Capacity: 2 Racks interchangeable between upper and lower level
- Internal Dimension (mm)(wxhxd): 535x498x520
- Possible to wash and dry upto 200 glasswares in one cycle
- Hot Forced Air Drying upto 95°C
- 5 standard, 35 customizable programs
- Supports Multi-function racks
- Standard USB Port and Optional Printer Connection
- Optional: HEPA filtered hot air through chamber and injectors
- Optional: Water Softener for purified water input
- Optional: View-In-Process Window (Glass Door)*



LANCER ULTIMA 1300LX

Freestanding Glassware Washer-Dryer

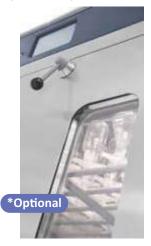


- Capacity: 3 Racks interchangeable between upper and lower level
- Internal Dimension (mm)(wxhxd): 535x644x520
- Possible to wash and dry upto 300 glasswares in one cycle
- Injector Drying + Hot Forced Air Drying upto 95degC
- Injector Drying ensures 100% drying in reduced time
- 5 standard, 35 customizable programs
- Supports Multi-function racks
- Standard USB Port and Optional Printer Connection
- Optional: Water Softener for purified water input
- Optional: View-In-Process Window (Glass Door)*

Forced Air Drying + Injector Drying



Forced air through the chamber as well as through the injectors provides complete drying coverage of the processed glassware.



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LANCER ULTIMA 1600LXP

Freestanding Glassware Washer-Dryer



AmketteAnalytics

- Capacity: 4 Racks interchangeable between upper and lower level
- Internal Dimension (mm)(wxhxd): 703x858x678
- Possible to wash and dry upto 576 glasswares in one cycle
- Injector Drying + Hot Forced Air Drying upto 95degC
- Injector Drying ensures 100% drying in reduced time
- 5 standard, 35 customizable programs
- Standard USB Port and Optional Printer Connection
- Optional: Water Softener for purified water input
- Optional: View-In-Process Window (Glass Door)*



*Optional

Since 1967

LANCER Ultima 1600LXP/HE

Freestanding Glassware Washer-Dryer with Height Extension



Capacity: 4 Racks interchangeable between upper and lower level
 Internal Dimension (mm)(wxhxd): 703x1048x678

- Include door jacks for safe loading and unloading
- Possible to wash and dry upto 576 glasswares in one cycle
- Injector Drying + Hot Forced Air Drying upto 95degC
- Injector Drying ensures 100% drying in reduced time
- 5 standard, 35 customizable programs
- Supports Multi-function racks
- Standard USB Port and Optional Printer Connection
- Optional: Water Softener for purified water input
- High throughput for diverse load like large flasks, carboys and measuring cylinders



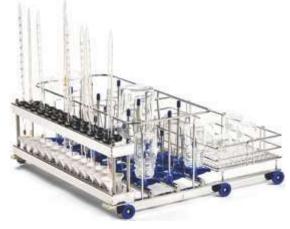
ACCESSORIES







PST Basket Rack



PS/21IXLC/25PIP Multi Function Rack



Positioned for effective cleaning

Height-adjustable polymeric supports on the injectors ensure correct placement of goods for proper water flow and cleaning inside the glassware. Wire holders keep the glassware centered over the injector and prevent scratching against the injector tip.

For smaller items such as test tubes or bottle caps, small mesh baskets with covers ensure proper placement for complete coverage of water and liquids during the wash cycle.



Injector Rack



LTCXL Test-Tubes Basket

Getinge LLL Detergent & NLL Neutralizer

For an efficient and consistent washing process

LLL and NLL assure high-performance washing by a contamination-free process with compatibility between equipment material and chemicals used.

⁰⁰ Since 1967

Bioreactor Rack: Multi-Use Bioreactor Washing & Sterilization

The reproducibility of your work relies on a properly cleaned and sterilized bioreactor.

A solution to prevent cross-contamination, minimize any research downtime and ensure validated outcome through optimal processes and procedures.

The relationship between the bioreactor design and laboratory washer assures predictable outcomes. The defined connection points on the wash rack and bioreactor head plate ensure a clean bioreactor prepared for sterilization.



Bioreactors in place*

Empty rack



*Multi-use, volume 1-3 liter

Baskets

Small bioreactor assembly parts are placed in the baskets to ensure that these are in place throughout the cleaning cycle.

Multiple injector tubes

Reassure best possible cleaning performance for each entry connection on the bioreactor head plate.

Spray headers

High flow of process water through the spray headers clean the inside of the bioreactor vessel.

Head plate fixation

The head plate is fixed in the wash rack. The spray wings within the washer will clean the outside of the head plate.

Angled head plate

Minimum water retention on the head plate surface will speed up the drying phase which shorten the overall process cycle.



ACCESSORIES







Vial Rack for Ultima Laboratory Washers

The vial basket has 4 grids exchangeable of different sizes to position the vials according to their dimensions.

The vial basket must be placed on a PST or PSBT, and the grids must be removed from these baskets to ensure correct washing.





POWERSONIC 600 SERIES



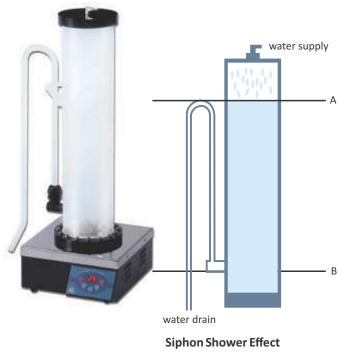


- Degassing function to eliminate dissolved gas in water or solutions
- Sweep function to optimize the cleaning power by modulating the frequency (Model 605/610/620)
- Housing material of SUS 304 + PP (Polypropylene) for stronger durability (Model 605/610/620)
- Built in microprocessor controller
- High-performance industrial BLT transducer
- Selectable use of ultrasonic power (3 steps Low, Medium, High)
- Built-in alarm function for operation stop

Model	Powersonic 603	Powersonic 605	Powersonic 610	Powersonic 620
Transducer	Industrial BLT Type			
Time Range	1-99min (Digital)			
Temp Range	Ambient-60°C (Digital)	Ambient-70°C		
Frequency	40KHz			
Housing Material	SUS 304 + ABS	SUS 304 + PP	SUS 304 + PP	SUS 304 + PP
Bath Capacity	3.3 L	5.7 L	10.7 L	20.7 L
Bath Dimensions	W240 x D140 x H100 mm	W300 x D155 x H150 mm	W300 x D240 x H150 mm	W500 x D300 x H150 mm
Overall Dimensions	W325 x D225 x H255 mm	W385 x D255 x H270 mm	W385 x D345 x H270 mm	W590 x D405 x H275 mm
Tray Dimensions	W240 x D135 x H105 mm	W240 x D120 x H100 mm	W250 x D200 x H100 mm	W440 x D250 x H100 mm
Required Power	200 Watt	350 Watt	400 Watt	700 Watt
Net Weight	4.5 kg	6.1 kg	7.3 kg	11.8 kg
Accessories	LID, Drain Hose (1m), Power Cable, Instruction Manual			
Voltage	Option: 100V, 110V, 220V or 240V(50/60 Hz)			

POWERSONIC 212

Since 1967



When the solution is filled to the point A, it is automatically drained through the point B. Ultrasonic pipette cleaner POWERSONIC 212 is an instrument to take off dirt or contaminants on materials for cleaning by ultrasonic sound from the transducers through the liquid in the bath. No need to change water when cleaning by siphon shower method

- Automatic water supply and drain by Siphon principle
- Strong cleaning power industrial BLT transducer
- No need to change water when cleaning (short cleaning time)
- Easy to adjust the cleaning time with built-in digital timer
- Convenient operation plate
- Available to clean multiple pipettes with safety by a basket tray
- Stainless steel drain pipe for stronger durability

Model	POWERSONIC 212
Transducer	Industrial BLT Type
Time Range	1-99 min (Digital)
Frequency	28KHz
Cabinet Material	Stainless Steel SUS 304
Bath Material	Transparent Acryl Resin
Bath Capacity	12L
Bath Dimensions	Ø160 x H685 mm
Overall Dimensions	W320 x D320 x H850 mm
Tray Dimensions	Ø140 x H505 mm
Required Power	150watt
Net Weight	15 kg
Voltage	Available from 100 to 240V, 50/60Hz
Accessory	Tray, Water Supply Hose (3m)

AmketteAnalytics

MELTING POINT APPARATUS - AUTOMATED



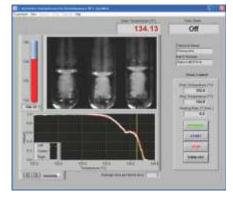


OptiMelt provides a fast and accurate means of automatically determining the melting points and melting ranges of chemical substances.

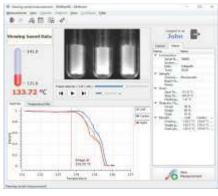
The Meltview 2 Pro software licence FDA 21CFR Part 11 is ready. It enables users to integrate the MPA100 into a compliance based lab environment. Both stand alone and client / server modes are available.

- Completely automated operation.
- PID-controlled temperature ramping.
- Digital movie of each melt.
- Stand-alone operation and computer control (USB).
- Conforms to Pharmacopoeia and GLP.
- Printer output.
- Live images during melts.
- Single-click data acquisition with auto-saving to a central database.
- View data from any computer on the network.
- Permission-based operations. User login required on all applications.
- Electronic signatures on collected data.
- Audit trail recording of all user activities with messages to discern invalid or altered records.
- Measurement report in PDF. Audit logs export to PDF or CSV.
- Easy user management from any computer on the network.
- Data backup/restore with schedule and recurring option.
- Stored files can be recalled for frame-by-frame playback.

Description		MPA100		
Temperature display		Melting point and melting point range		
Start temp. range		(Ambient + 10 °C) to 396 °C, 0 °C min. set point		
Stop temp. ran	ge	(Start temperature + 4 °C) to 400 °C		
Temperature re	esolution	0.1 °C		
Ramp rate		0.1 °C to 20 °C per minute (0.1 °C increments)		
Heat-up time		~10 minutes (50 °C to 350 °C)		
Cool-down time		~10 minutes (350 °C to 50 °C)		
Temperature accuracy		±0.3 °C (up to 100 °C) ±0.5 °C (up to 250 °C) ±0.8 °C (up to 400 °C)		
Reproducibility		0.2 °C		
Temperature sensor		Pt RTD (built-in)		
Oven control		Closed-loop PID		
Display		Back-lit, touchscreen LCD (5.8")		
Printer interface RS-232		Supports Epson compatible dot-matrix printers		
	Dimensions	1.4 mm to 2.0 mm outside dia., 100 mm length		
Capillaries	Capacity	Up to 3 tubes simultaneously		
	Fill height	2 mm to 3 mm		



Meniscus Point Software



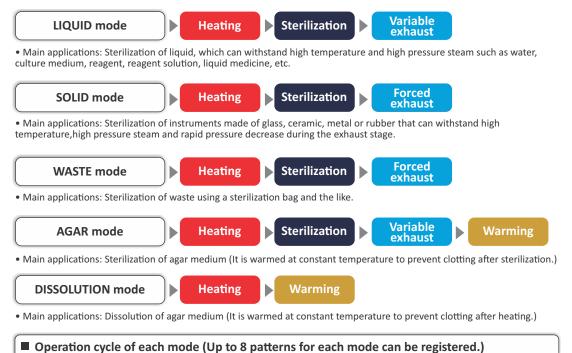
Since 1967

Measurement and Recall

HIRAYAMA

AUTOCLAVES with Colour Touch Panel











HV-II SERIES



AmketteAnalytics

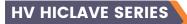


These Autoclaves are user friendly, Easy-to-Read and Easy-to-operate

- Sterilization Temperature: 126°C or 135°C.
- Capacity from 25-110 liters.
- Easy-to-operate Color-touch Panel.
- 5 selectable modes: Agar, Solid, Dissolution, Liquid, Waste.
- Electromechanical Lid Lock System.
- 3 exhaust levels: Without, Fine, Small
- Optional devices: Printer, Recorder, Floating Sensor, Forced Cooling Unit, Automatic water supply system, USB interface port.

Description		HV-25 II	HV-50 II	HV-85 II	HV-110 II	
Effective capacity		25 L	50 L	85 L	110 L	
Chamber size (φ x H mm)		240 x 550	300 x 710	420 x 615	420 x 795	
Temperature setting range	Sterilization	105°C - 126°C Variable		105°C - 135°C Variable		
	Dissolution		60°C - 10	00°C Variable		
	Warming		45°C - 6	0°C Variable		
	Lid lock	LIQUID, AGAR, DISSOL	modes: 60°C - 95°C Var	iable / SOLID, WASTE m	odes: 60°C - 97°C Variable	
Exhaust setting		3 levels (Without exhaust, Fine exhaust, Small amount of exhaust)				
Maximum working pressure		0.186MPa	0.255MPa			
Thermometer		Digital display 5.0°C- 128.9°C	Digital display 5.0°C - 137.9°C			
Required power supply facili	ty	1.5kW	2.0kW	3.0kW	4.0kW	
Power supply		50Hz /	V / 220V / 230V / 240V, OHz / 60Hz crify when ordering.) AC220V / 230V / 240V, 50Hz / 60Hz (Please specify when ordering.)			
Weight (Approximately)		44 kg	60 kg	83 kg	89 kg	
Safety devices and alarms		Safety pressure valve, Earth leakage breaker with O.C.protection, Low water cut off device, Alarms: Low water heating, Temperature sensor wire disconnection, Over-temperature, Over-cool, Over-pressure, Abnormality in Iid, Abnormality in the lock of lid opening/closing lever				
Supplied accessories Wire basket, Exhaust bottle, Bottom plate, Drainage hose (50 cm), Exhaust hose Drainage collecting bottle, Cable tie, Caster stopper, Operation manual, User inspectic Small sized pressure vessel specifications (excluding HV-25) and HV-25) LI				User inspection procedure,		

Since 1967



HC HIRAYAMA

The best-selling autoclave series that has many functions with excellent operability.



- Dual sensing interlock mechanism
- Programmable auto-start function
- Auto-exhaust mechanism
- Electro mechanical lock system
- Memory back-up
- Double-sensing system for air exhaust

Model	HV-25 HV-50 HV-85 HV-					
Outside dimension (W x D x H mm)	485 × 470 × 956	547 × 532 × 1046	667 × 652 × 1011	667 × 652 × 1191		
Inside dimension ($\Phi x D mm$) Effective capacity	240 × 550 (25L)	300 × 710 (50L)	420 × 615 (85L)	420 × 795 (110L)		
Nominal Volume	28 L	54.2 L	98.8 L	123.7 L		
Net weight (approx.)	41kg	57kg	71kg	81kg		
Power supply		230 / 240 V/	AC, 50 Hz / 60 Hz			
Pressure vessel category		Small sized	pressure vessel			
Chamber material	Stainless steel (SUS 304)					
Sterilization temperature range	105-126°C variable 105-135°C variable					
Dissolution temperature range	60 - 100°C, variable					
Warming temperature range		45 - 6	0°C, variable			
Maximum working pressure	0.186MPa		0.26 MPa			
Thermometer	5 - 128°C		5 ~ 137°C			
Pressure gauge		0	~ 0.4MPa			
Safety devices	Pressure safety valv	e, Over-current & Earth	leakage breaker, Low wa	ater cut off device		
Alarms, Error display	Low water heating	ng, Temperature sensor	wire disconnection, Ove	er-temperature,		
	Over-coo	l,Over-pressure, Abnorm	nality in lid open/closing	lever lock		
Supplied accessories	Wire mes	h baskets (2), Bottom pla	ate, Drainage hose, Exha	iust bottle,		

HVE ECONOMICAL HICLAVE SERIES







An economical model which is recommended when renewing an old model.

- Pulse exhaust function
- Warming function that does not coagulate the agar media
- Electro-mechanical lid lock system
- Dual interlock mechanism
- Memory function

Model	HVE-50				
Outside dimension (W x D x H mm)	547 × 532 × 1046				
Inside dimension ($\Phi x D mm$) Effective capacity	300 × 710 (50L)				
Nominal Volume	54.2 L				
Net weight (approx.)	57kg				
Power supply	230 / 240 VAC, 50 Hz / 60 Hz				
Pressure vessel category	Small sized pressure vessel				
Chamber material	Stainless steel (SUS 304)				
Sterilization temperature range	105-135°C variable				
Warming temperature range	45 - 80°C, variable				
Maximum working pressure	0.255MPa				
Thermometer	Digital display 5 ~ 137°C				
Pressure gauge	Analog display 0 ~ 0.4MPa				
Safety devices	Pressure safety valve, Over-current and Earth leakage breaker, Low water cut off device				
Alarms, Error display	Low water heating, Temperature sensor wire disconnection, Over-temperature,				
	Over-cool, Over-pressure, Abnormality in lid open/close lever lock				
Supplied accessories	Stainless steel wire basket, Bottom plate, Drainage hose, Exhaust bottle,				
	Exhaust hose, Drain bottle, Caster stoppers				

HVA HICLAVE SERIES



HK HIRAYAMA

Economical HICLAVE with forced cooling device

A forced cooling system is equipped. This model has a capacity of 85 L or 110 L and has excellent cost performance.

- Excellent cost performance
- Forced cooling unit is standard
- Warming function does not coagulate the agar media
- Electro-mechanical lid lock system
- Memory function
- Dual interlock mechanism

Model	HVA-85	HVA-110			
Outside dimension (W x D x H mm)	667 × 652 × 1011	667 × 652 × 1191			
Inside dimension (Φ x H mm) Effective capacity	420 × 615 (85L) 420 × 795 (110L)				
Nominal Volume	98.8 L	123.2 L			
Net weight (approx.)	78kg	85kg			
Power supply	230 / 240 VAC, 50 Hz / 60 Hz				
Pressure vessel category	Small sized pressure vessel				
Chamber material	Stainless steel (SUS 304)				
Sterilization temperature range	105-135°C variable				
Warming temperature range	45 - 80°C, variable				
Maximum working pressure	0.25	5MPa			
Thermometer	Digital display 5 ~ 1	137°C			
Pressure gauge	Analog Display 0 ~ 0.	.4MPa			
Safety devices	Pressure safety valve, Over-current and Ea	rth leakage breaker, Low water cut off device			
Alarms, Error display	Low water heating, Temperature sense	or wire disconnection, Over-temperature,			
	Over-cool,Over-pressure, Abno	ormality in lid open/close lever lock			
Supplied accessories	Stainless steel wire basket, Bottom pl	ate, Drainage hose, Exhaust bottle,			
	Exhaust hose, Drain bottle, Caster stoppers				

HVN & HVP HICLAVE SERIES



HVN Series



HVP Series



HIRAYAMA

HVN Series

Exhaust steam-free autoclave with deodorizing

New Idea !! An autoclave equipped with the deodorizing function that can suppress an unpleasant smell and steam.

- Deodorizing function
- Comfortable working environment

HVP Series

HICLAVE with full automatic drying function

Full-automatic sterilization to drying by high-efficiency vacuum pump.

- Drying efficiency is increased
- Dressing drums can be loaded
- Clean drying without contamination
- Pre-vacuum air removal using a vacuum pump
- Dual interlock mechanism

Model	HVN-50	HVN-85	HVP-50		
Outside dimension (W x D x H mm)	547 × 552 × 1050	669 × 680 × 1011	540 x 630 x 1040		
Inside dimension ($\Phi x D mm$) Effective capacity	300 × 710 (50L)	420 × 615 (85L)	300 × 710 (50L)		
Power supply	AC220V, 50/60	230 / 240 VAC, 50 Hz / 60 Hz			
Net weight (approx.)	73kg	88kg	80kg		
Chamber material		Stainless steel (SUS 304)			
Sterilization temperature range		105-135°C variable			
Maximum allowable pressure (gauge pressure)		0.255MPa			
Pressure vessel category		Small sized pressure vesse	2		
Temperature display range		5 ~ 137°C			
Sterilization timer	1 ~ 250	minutes	-		
Deodorizing timer	1~90	ninutes	-		
Exhaust bottle (filled)	3.4 liter	-			
Pressure gauge	Analog displa				
Safety devices / Warning alarms	Pressure safety valve, Circuit breaker, Lack of water prevention switch, Error indication (Exhaust clogging, Lack-of-water, Temperature sensor wire breakage, Over temperature, Over cooling, Open/close lever locking failure)		Pressure safety valve, Low water cut-off device, Earth leakage breaker for vacuum pump, Low water heating, Temperature sensor wire disconnection, Over-temperature, Over cool, Over-pressure, Abnormality in lid open/close lever lock, Lack of water for vacuum pump bottle Bottom plate, Flexible drainage		
Accessories	SS Wire basket(2pcs), Heater cover, Drain hose, Castor stopper (2pcs) Exhaust hose, Drain bottle,				hose, Castor stopper (2pcs) Drainage hose, Water supply hose
Time setting range		1 min - 250 min 1 min to 90 min	Sterilization: 1 min - 250 min, Remaining time is displayed Drying: 1 min to 90 min, Remaining time is displayed		

Since 1967



Am phasys

We believe that cells hold the key to a sustainable future by revolutionizing the way we live.

Why Pollen Quality Matters Quality in Breeding and Seed Production

Quality in Directing and Seed 110dd

Plant Breeding

The transfer of genetic information of plants occurs through pollen. Especially in expensive hybrid breeding but also in line breeding, the health and quality of pollen is of highest interest. Abiotic factors like temperature, humidity, radiation, and other genetic factors like inbreeding depression have a direct and increasing – negative – impact on pollen viability, quantity and quality.

In times of climate change and increasing demand for food, the knowledge about the quality and health of pollen is indispensable for efficient plant breeding and seed production. Having a fast, easy-to-use, and highly accurate tool to determine the quality of pollen enables researchers and breeders to:

- Improve and speed-up the DH production process
- Improve efficiency in line selection by early removal of bad pollinators
- Breed for heat tolerant lines with high pollen quality
- Improve precision phenotyping and gene mapping

Seed Production

The transfer of genetic information of plants occurs through pollen. Especially in expensive hybrid breeding but also in line breeding, the health and quality of pollen is of highest interest. Abiotic factors like temperature, humidity, radiation, and other genetic factors like inbreeding depression have a direct and increasing – negative – impact on pollen viability, quantity and quality. A high quality of pollen is indispensable for achieving an efficient pollination and to obtain a high seed set.

For the optimization of production factors like crop placement or the female-to-male ratio the knowledge about pollen quality and characteristics is needed. To improve commercial seed production and to obtain the highest seed set in a reliable way, a high pollen quality is needed. Using a fast, easy-to-use and highly accurate tool to determine the quality of pollen enables production research and seed producers to:

- Get the right information for crop placement
- Determine the pollen viability threshold for full seed set
- Optimize production pattern for low performing pollinators
- Set-up the right protocols for pollen (storage) management

Bio-Processing

We believe that cells hold the key to a sustainable future by revolutionizing the way we live

Cell Analysis in Bacteria

The small size of bacteria cells makes an analysis in comparison to other cell types more difficult. Image-based methods fail in the measurement of bacterial cell concentrations and the simultaneous determination of cell counting and viability determination is rare.

The two main variables indicating the changes in bacteria are cell number and cell viability. In addition to providing these results, the high sensitivity of Impedance Flow Cytometry can be used to analyze a wide range of bacterial species, including both gramnegative and gram-positive bacteria. It can also be used to monitor bacterial growth, detect bacterial contamination, and measure bacterial viability.

Milk: Somatic Cells

For the milk industry the quality of raw milk is a major concern. The presence of somatic cells (white blood cells, leukocytes) are mainly caused by bacterial infections and bacterial contamination. The presence of high concentrations of somatic cells, measured as Somatic Cell Count SCC, has an adverse impact on the quality of milk products.

Analysis of Human and Animal Cells

Animal and human cells, especially mammalian cells, play a great role in research, clinical and pharmaceutical applications. Cells are used for studying and finding treatments for diseases, to produce antibodies, proteins, and vaccines, for regenerative medicine, and recently in cellular agriculture to replace animal products.

Cell Analysis in Yeast

Fermentation with yeast is one of the oldest biotechnological processes used by mankind. Methods to control and analyze cell growth and development are standard but still more information can be unlocked. To control and improve fermentation processes, yeast viability and cell density are crucial variables.

(70)

For more information • Email: info@anmalliance.com • Tel.: 91-22-6614 1500

AMPHA P20 POLLEN ANALYZER

The Ampha P20 is the world's first fully portable pollen analyzer. It enables faster measurements due to simplified operation and automatic data analysis. Furthermore, the portability and ease of use increase the efficiency of pollen analysis in plant breeding, production research and seed production. The Ampha P20 is an ideal instrument for the measurement of a large number of samples and for routine measurements wherever they are needed. With its new crop-specific microfluidic chips, the Ampha P20 offers fully automated solutions from the start of the measurement to data analysis.





PLANT BREEDING

- Phenotyping of lines directly in the field
- Characterization of short lived pollen species
- Immediate results for data driven decision-making

PRODUCTION RESEARCH

- Data collection on site: in the field or in the greenhouse
- Data-based decision making for crop placement
- No training in data analysis required

SEED PRODUCTION

- Routine check of pollen quality anywhere
- Location independent, standardized results
- User friendly operation

PORTABLE AND EASY TO USE

- Embedded PC
- Pollen viability wherever it is needed and for species with an extremely short pollen lifetime like wheat, rice and corn. Optimization of processes at all stages where the viability of pollen is a success factor.
- Integrated touchscreen with intuitive menu
- Simplified handling supported by operation wizards
- Minimal setup time
- Crop-specific chips with pre-installed settings
- The crop-specific microfluidic chips for the Ampha P20 are programmed with all the settings for fully automated analysis.

AUTOMATED DATA ANALYSIS

- Immediate results for data-driven decision making
- Systematic screening and routine measurements
- No experience in data analysis needed
- The measurement results are displayed immediately at the end of the measurement.

AMPHA X30 CELL ANALYZER

The novel Ampha X30 opens a new era of cell analysis: simultaneous measurement of cell count and cell viability, and in addition crucial information about the status of the cells, like metabolic activity. Based on Impedance Flow Cytometry, no dyes, no markers, and no incubation are required. Results are available after minutes – including sample preparation! With one instrument and four different chip sizes of the microfluidic chip the whole range of cells can be measured: bacteria, human and animal cells, algae, yeast, and others like somatic cells in milk.



BENEFITS:

- No labeling, no staining, no incubation
- No calibration
- Short sample preparation, short measuring times, immediate results
- Highly sophisticated software for operation and data analysis
- Simultaneous analysis of cell viability, counting and other cell properties like cell health
- Cell sizes between 1 μm and 50 μm
- Low operational costs
- Online measurements via bypass approach possible

UNIQUE

- All cell types like bacteria, human and animal, algae, yeast, somatic cells
- Reuse of cells for sorting, tissue culture
- One instrument, four chips, all cells
- With the Ampha X30 all cell types can be analyzed with one instrument, using chips with different channel diameters. The cells are not harmed by the measurement and due to the absence of dyes and markers, the cells can be recovered and reused, e.g., for sorting or tissue culture.
- No staining, no molecular markers, no incubation needed
- Fast and simple sample preparation and measurement: results immediately available
- No markers or dyes are required
- Reduced operational cost
- No incubation time
- Shorten the whole measurement to few minutes



Water activity - aW

Reliable solutions for accurate measurement of water activity

Water activity is measured around the world in many industries from food and pharmaceuticals, to oil and chemicals. The water activity instruments can be used in water activity measurement for process and quality control, on the production line, or for laboratory analysis and product development.





Varnish Convenience products



Cheese

Pharma





Lab - Water activity from A-Z





When it comes to the quality of food, pharmaceutical products or cosmetics, bacterial infestation, mold, discoloration, changes in texture and taste are not acceptable. Water activity has a great influence on all the mentioned effects.

Water activity can be used to make a microbiological risk assessment or to optimize production processes and storage conditions.

Water activity is a measure of the availability of the energy of "free" water and must not be mixed up with water content (g water / g substrate). The water activity is indicated with the so-called aW value and ranges between 0 (absolute dryness) and 1 (condensing moisture). Only this part actively participates in the exchange with the ambient moisture and is of great importance with regard to the microbiological durability or the biological functions of the microorganisms. The "free" water in products is partly responsible for the growth of undesirable organisms such as bacteria or fungi, which produce "toxin" or other harmful substances and has also a significant influence on the chemical behaviour of food, cosmetic, pharma and other products.



Which model is right?

It depends on what your needs are and whether you need to follow norms and standards in your industry. Here are a few questions you can ask yourself:

- What type of products do I want to measure?
- In what range of 0.01-1.0aw do I expect the water activity value?
- Are volatile substances as f.e. acids or strong aromas in the samples ?
- What are the room conditions where the device will be located ?
- What are my requirements regarding accuracy, norms, standards (e.g. ISO, USP, IQ/OQ etc.)?

Novasina LABMaster-Neo

Determination of water activity in QA laboratories of food and pharmaceutical companies. This measuring instrument also provides support in the investigation of the causes of product spoilage, texture changes or rancidity.



THE talented all-rounder

Outstanding measuring instrument for effortless and worryfree water activity measurement and documentation, including:

- 21CFR11 compliant audit trail and user management
- Automatic verification or adjustment
- Contactless salt standard identification by RFID
- Fast mode that guarantees results within 10 minutes

Additional features:

- Full thermostatisation in the range of 0-60°C
- Measuring range from 0.0300-1.000aw
- A simple protective filter handling by magnet fixing

Of course also conformable with AOAC, ISO, USP and other standards.



Novasina LabTouch-aW

Flexible and fast water activity meter with large touchscreen. Easy to use, very well suited for AT-Line measurements in production or for the exact determination of AW-values in the QC-Lab.

Ideal for laboratory and production

aW measuring instrument for:

- Many samples, regardless of whether liquid, gel-like or solid
- Partial temperature regulation as well as integrated sample surface temperature measurement enable accurate and reproducible measurements
- Different measuring modes offer the user the possibility to carry out either a fast measurement on the production line or an exact AW determination for quality assurance of the products
- Ergonomic design and touch screen, it makes water activity measurement easier than ever before

Novasina LabSwift-aW

One measurement in the lab, then again on the line, the LabSwift-aW with rechargeable battery offers this possibility. The device is designed for daily use and for samples in the low to medium aw range.

Looking for a water activity instrument with local flexibility? Then the LabSwift-aW is exactly what you need:

- Due to rechargeable battery, the device can be placed anywhere
- Suitable for products such as powder or dried fruits with low to medium aW-values (the measuring device does not have a temperature stabilisation of the measuring chamber)
- Reliable and accurate measurement results as the proven resistive electrolytic measuring technology of Novasina is also implemented here

Novasina LabStart-aW

Inexpensive AW meter for measurements in the low to medium AW range, without already having high demands on accuracy and reproducibility.

Ideal for the first step:

- Designed as a "starter", proven Novasina technology can be found inside, especially the resistive electrolytic sensor
- · covers a lower demand on accuracy and reproducibility

AmketteAnalytics



SAL-T SALT STANDARDS

Latibration Standards

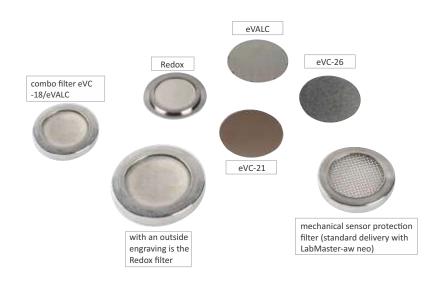
Moisture standards based on saturated salt solutions in plastic tablets, with a moisture permeable membrane. Each salt is delivered in well closable container.

Humidity values	P/N	Name	LabStart-aw Calibration	LabSwift-aw Calibration	LabTouch-aw Calibration	LabMaster-aw neo Calibration	Verification
4%	111 7440	SAL-T 4				Х	Х
6%	111 6453	SAL-T 6				Х	Х
11%	111 0930	SAL-T 11		Х	Х	Х	Х
23%	260 0960	SAL-T 23					Х
33%	111 0932	SAL-T 33	Х	Х	Х	Х	Х
43%	260 0961	SAL-T 43					Х
53%	111 0934	SAL-T 53		Х	Х	Х	Х
58%	260 0189	SAL-T 58		Х	Х	Х	Х
75%	111 0936	SAL-T 75	Х	Х	Х	Х	Х
84%	111 9886	SAL-T 84		Х	Х	Х	Х
90%	111 0938	SAL-T 90		Х	Х	Х	Х
97%	111 9887	SAL-T 97			Х	Х	Х
100%	260 1619	SAL-T 100				Х	Х

FILTER SELECTION

These specially designed filters shall be mounted in front of the sensor and used to provide protection against chemical contamination and degradation of the resistive electrolytic sensor element.

As the inner part of the sensor consists of a liquid, volatiles which dissolve and dissociate are extremely dangerous and harm the sensor in a very short time.

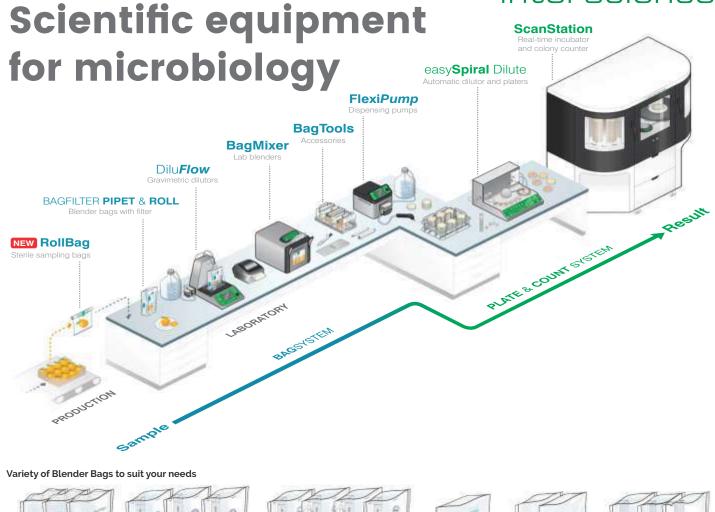


Some of the known Volatiles

- Acetic acid (e.g. vinegar, mustard etc)
- Alcohols, secondary (e.g. 2-Propanol, 2-Butanol)
- Amines (e.g. urea, ammonia)
- Aroma, light (fruit, yeast, hop, herbs, vanilla, orange)
- Aroma, strong (like spices, herbs)
- Butyric acid
- Cannabis
- Essental oil (only pure menthol, etc)
- Ethanol (ethyl alcohol)
- Formic acid
- Furanes (bread aroma)
- Glycerin (e.g. in PET Food, protein bar)
- Hydrocarbons, aromatc
- Hydrogen halides
- Hydrogen peroxide
- Hydrogen sulfide
- Ketones (e.g. acetone or MEK)
- Nicotine, Snus
- Perfumes, fragrances
- Phenol
- Polyethylen-glycol, propylen-glycol
- Sulfur dioxide
- Sulphuric acid

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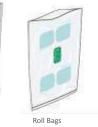
interscience

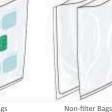
















RollBag 7.5 x 20 cms
 RollBag 11 x 20 cms
 RollBag 11 x 25 cms
 RollBag 14 x 23 cms
 RollBag 11 x 30 cms
 RollBag 14 x 33 cms
 RollBag 17.5 x 30 cms
 RollBag 17.5 x 40 cms
 RollBag 25 x 38 cms
 RollBag 25 x 50 cms
 RollBag 38 x 56 cms



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BagMixer[®] is a highly efficient lab blender for solid sample preparation. With a blender bag, it guarantees optimal microbiological extraction in less than 60 seconds and eliminates all risks of cross contamination.

- Optimal bacterial extraction.
- Adjustable blending power.
- Click & Clean (model specific).

BagMixer

interscience

interscience

- Q-Tight closing.
- User-friendly.

Description	MiniMix 100 P CC	BagMixer 400 P	BagMixer 400 W	BagMixer 400 CC	BagMixer 400 SW	JumboMix 3500 P CC
Optimal blending volume	5 - 80 mL	50 - 400 mL	50 - 400 mL	50 - 400 mL	50 - 400 mL	200 - 3750 mL
Net weight	11.7 kg	16.8 kg	16.6 kg	16.1 kg	24.7 kg	55.8 kg
Dimensions (w x d x h) cm	20x36.9x20.2	26.8x39.5x28.3	26.8x39.5x28.3	27x42.1 x26.6	27.6x45.9x35.7	51.2x52.3x46.8
Fuses	T3.15A L 25	50V / T1.25A L 250	V 5x20 mm	T3,15A L 25	T4A L250V/ T2A L250A 5x20 mm	
Power	110 W	135 W	135 W	55 W	55 W	400 W
International protection marking	11	21	21	21	31	21
In compliance with	ISO 7218, ISO 6887 and FDA BAM (Bacteriological Analytical Manual)					





For Pharma Tablet application

LAB BLENDER

inco 106

SCANSTATION

interscience

1 incubator 1 robotic arm 1 automatic colony counter up to 300 Petri dishes + transfers the Petri dishes + detects & counts colonies capacity for time-lapse photography as soon as they appear

Real-time incubator and colony counter

ScanStation[®] is a real-time incubator and colony counting station centralizing incubation, detection and counting of up to 300 Petri dishes simultaneously. Petri dishes are counted every 30 min* throughout the process. Colonies are detected as soon as they appear.

- Rotating Petri carousel Record-breaking capacity of 300 Petri dishes
- Insulated panoramic window Easy process monitoring
- Thermoregulated incubator Peltier module ± 1 °C refrigerated incubator

No compressor

- Storage unit For computer, UPS, accessories
- Easy installation Simply plug in the 100-240V~power cord.
- **High speed robotic arm** Automated plate handling from incubation to counting
- **Real-time bacterial growth** Touch screen with real-time video of the process 24/7 operation
- Ultra-HD camera Reflection free LED lighting 5 megapixel sensor
- Pressure-sensitive gripper Automatically adapts to right-side up or upside down Petri dishes

No settings

 Bar-code reading - Automatically retrieves sample data Connectable with LIMS, dataLink[™]

	ScanStation [®] 100	ScanStation [®] 200	ScanStation [®] 300			
Reference	439 100	439 200	439 300			
Capacity	100 Petri dishes	200 Petri dishes	300 Petri dishes			
Reading time in between each dish	30 minute	s or 1 hour	1 hour			
Petri dish size	Ø 90 mm right-sid	e up or upside down and Ø 55-65 m	m (with adaptor)			
Type of plating accepted	Pour p	late, surface, Spiral [®] , filtration memb	orane			
Loading		single or multi-batch				
Camera resolution		5 megapixels				
Interface	23 inches touch screen					
Software	ScanStation [®] software					
Video player	Play, zoom, pause, replay, during and after incubation					
Included computer system	PC Windows 10 LTSC desktop with Intel i7 processor					
Incubation temperature	From 20 °C to 45 °C					
Accuracy of incubation temp.	± 1 °C	C (checked by a 9-point mapping syst	em)			
Recording of the temperature		Every minute				
Heating and cooling temp.		Peltier modules, compressor free				
Terms of use	In a ventilated room, un	der normal temperature conditions	between 18 °C and 25 °C			
Max external humidity temp.		70%				
Max incubation time		10 days				
Voltage - frequency		100-240 V~ 50-60 Hz				
In compliance with		21 CFR Part 11				

AmketteAnalytics

SEMI-AUTOMATIC COLONY COUNTER



interscience

Scan[®] Series is a semi-automatic colony counter series with the essential features to start the colony counting and is specifically designed for environments of food microbiology (PCA, VRBG, MRS).

- Counting on pour, surface, Spiral, circle mode plated dishes.
- Accuracy and repeatability.
- 21CFR Part 11 included.
- Traceability.
- Print of the results.
- Dark Field lighting technology.
- Ideal with dataLink full traceability system.

Description	Scan 300	Scan 500	Scan 1200	Scan 4000		
Type of colony counter	Semi automatic	Semi automatic	Semi automatic	Semi automatic with manual control		
Counting time		Up to 1000 colo	nies per second			
Minimal size of colony	0.1 mm	0.1 mm	0.05 mm	0.05 mm		
Camera	CMOS color camera	CMOS color camera	HD CCD color camera	Ultra HD color camera		
Lens	M12 lens	M12 lens	HD Japanese lens	Ultra HD Japanese lens		
Zoom	x 28	x 28	x 28	x 69		
Resolution	1 megapixel	1 megapixel	1.2 megapixel	5 megapixel		
Screen		1280 X 1024 pixels or superior				
Dimensions (w x d x h)	28.5 x 26.5 x 29 cm	28.5 x 26.5 x 28.5 cm	28.5 x 26.5 x 37.5 cm	47 x 47 x 64 cm		
Net weight	8.4 kg	8.4 kg	9.4 kg	25 kg		

MANUAL COLONY COUNTER



 ${\it Scan\,50\,is\,a\,manual\,colony\,counter\,with\,multiple\,ergonomic\,supports.}$

The Dark Field 2 technology offers an indirect and precise LED lighting of the colonies.

The export of the counting result, via USB link to a computer, ensures the data traceability, without preliminary software processing.

- Inclined and padded counting surface
- Dark Field 2 technology for high contrast colony lighting
- Adjustable white LED intensity
- USB port: counting data transfer to computer

Description	Scan 50
Type of colony counter	Manual (from 0 to 1999 CFU)
Counting tone	Touch surface with adjustable sensitivity
Lighting technology	Dark Field 2 : Indirect lighting with White LED
Lighting system	LED lighting with 5 intensity levels
Petri dish dimensions	From Ø 55 to Ø 90 mm
In compliance with	ISO 7218 and FDA BAM

Contrasting colony lighting: Dark Field 2

Dark Field 2 is an indirect lighting system with adjustable intensity. Light reflectors diffuse the light at all points without any reflections or shadows. It makes all colonies stand out on the surface, in the mass and around the edge of the dish.

Flashes of light are eliminated and the operator's eyes are protected.

Since 1967









The **BioPlus** range is designed for the storage of the most delicate biomaterials, in situations where even tiny fluctuations in conditions inside the storage cabinet can have a serious effect on the contents.

BioPlus refrigerators reduce internal relative humidity, thus cutting down on any likelihood of undesirable contaminants getting near delicate biomaterials.

The **BioMidi** cabinet is designed to meet the majority of biomaterial refrigeration and freezer requirements, with very few limitations.

The functional design ensures easy, ergonomically correct access to the storage space.

- Access port
- Self-closing door with key lock
- Voltage-free contact
- Acoustic and visual door alarm
- E-sensor
- Acoustic and visual temperature alarms
- Alarm recording

Exterior: White lacquered steel or stainless steel

Interior: BioPlus - Stainless steel

BioMidi - **Aluminium/stainless steel or stainless steel

** White version comes with internal sides in aluminium and bottom and backside of door in stainless steel. Stainless versions comes as all stainless

Model	ER 930	ER 1400	RR 425	RF 425	RR 625	RF 625	EF 425		
Temp Range	-2°C/+20°C	-2°C/+20°C	+2°C/+20°C	-25°C/-5°C	+2°C/+20°C	-25°C/-5°C	-40°C/-5°C		
Control Unit		Gram Control Unit with Voltage Free Contact, acoustic and visual alarms, E-sensor							
Material Interior	Stainles	s Steel		Stainless Stee	l / Aluminium or :	Stainless Steel			
Material Exterior			White lacque	red steel or Stain	less Steel				
Dimensions (W x D) mm	780 x 1045	1390 x 876	600 x	731	815	x 731	622 x 731		
Height mm	2025/2275	2025/2275	1980/	2000	1980/2000		1980/2000		
Volume	930 liters	1400 liters	425 I	iters	625 liters		425 liters		
Net weight	165 kg	283 kg	112	kg	152 kg		112 kg		
Insulation		60	mm polyurethan	e with HFC-free	cyclopentane pro	pellant			
Refrigerant				R290					
Energy (kWh/24h)	2.1	2.56	1.27	3.61	1.3	4.03	8.93		
Sound Level	48.5dB(A)	47.5dB(A)	47.2dB(A)	46.3db(A)	46.6dB(A)	48.4db(A)	57.8dB(A)		
Connection				230V, 5	0Hz				
Air System	Gram BioLine Ventilated Air Distribution System								
Defrost System		Automatic Smart Defrost with re-evaporation of defrost water							
Racks Options			Wire	Shelves, Perfora	ted Shelves, Drav	vers			



BIOPLUS & BIOMIDI



Since 1967

BIOCOMPACT II



This is a compact refrigerator or freezer cabinet for a wide range of biostorage purposes where the prime focus is on dependability.

The BioCompact II provides you with significantly better performance than any other cabinets in this segment for storing ordinary biomaterial under stable conditions. The small footprint of this design also makes it the perfect biostorage unit for use in confined spaces.

The BioCompact II combination models, are stacked cabinets consisting of one Refrigerator and one Freezer cabinet mounted together. The combination offers a very high degree of flexibility and versatility on the same small footprint.

- Access port
- Self-closing door with key lock
- Voltage-free contact
- Acoustic and visual door alarm
- E-sensor
- Acoustic and visual temperature alarms

Exterior: White lacquered steel or stainless steel finish Interior: PS lining

Model	RR210	RF210	RR410	RF410	RR210/RF210	RR310/RF210
Temp Range	+2°C/+20°C	-25°C/-5°C	+2°C/+20°C	-25°C/-5°C	+2°C/+20°C and -25°C/-5°C	+2°C/+20°C and -25°C/-5°C
Control Unit		Gram Cont	rol Unit with V	/oltage Free Co	ontact, acoustic and visual ala	rms, E-sensor
Material Interior				PS L	ining	
Material Exterior			White	lacquered ste	el or Stainless Steel	
Dimensions (W x D x H) mm	595 x 640 x	801/1001	595 x 640 x	1776/1976	595 x 640 x 1602/1802	595 x 640 x 1991/2191
Volume	125 liters 346 liters 125 / 125 lit				125 / 125 litres	218 / 125 litres
Net Weight (Unpacked)	46 Kg 78 Kg 92 kg					101 kg
Insulation		50	mm polyureth	ane with HFC	-free cyclopentane propellant	
Refrigerant				Re	500a	
Energy (kWh/24h)	0.61	1.53	0.59	2.06	2.07	1.98
Sound Level	36.5dB(A)	39.7db(A)	33.2dB(A)	36.6db(A)	39dB(A)	39.3dB(A)
Connection				230	/, 50Hz	
Air System			Gram Bi	oline Ventilate	ed Air Distribution System	
Defrost System		Automatic Smart Defrost with re-evaporation of defrost water				
Racks Options			Wire S	Shelves, Perfo	rated Shelves, Drawers	

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BIOBASIC

The BIOBASIC range offers cost-effective biostorage solutions for a host of applications. With temperature alarms, internal and external ATEX, no cold walls and a user friendly interface, the BIOBASIC range provides an exceptional selection of features in a very small package. With four sizes to choose from, the BIOBASIC range is well suited for use in confined spaces where performance, features and value are paramount.

- Access port
- Self-closing door with keylock
- Voltage-free contact
- Acoustic and visual temperature alarms
- Acoustic and visual door alarm
- Full ATEX compliance
 - Both internal and external
- RR 210/310/410 also available with glass door
 Exterior: White lacquered steel
 Interior: White/PS lining, Model 600 stainless steel

Model	RR210	RF210	RR310	RF310	RR410	RF410	RR600	RF600
Temp Range	+2°C/+15°C	-25°C/-5°C	+2°C/+15°C	-25°C/-5°C	+2°C/+15°C	-25°C/-5°C	+2°C/+15°C	-25°C/-5°C
Control Unit	B	ioBasic Contr	ol Unit with Vo	oltage Free Co	ntact, acoustio	c and visual al	arms, E-senso	r
Material Interior			PS Lir	ning			Stainle	ss Steel
Material Exterior				White lace	uered steel			
Dimensions (W x D x H) mm	595 x 6	40 x 831	595 x 64	10 x 1220	595 x 64	0 x 1876	700 x 8	95 x 2125
Volume	125	125 liters 218 liters 346 liters					610 liters	
Refrigerant			R6	00a				R290
Energy Consumption (kWh/24h)	0.43	1.47	0.51	1.56	0.59	2.06	1.44	3.77
Sound Level	33.3dB(A)	37.7db(A)	34.1dB(A)	37.8db(A)	33.2dB(A)	36.6db(A)	44.4dB(A)	44.4dB(A)
Connection				230V,	50Hz			
Air System			F	orced Air Dist	ribution Syster	n		
Defrost System		Automatic Smart Defrost with re-evaporation of defrost water						
Access Port		1 2					2	
Plastic Coated Wire shelves		3	4			6		4

B SCIENCE

REFRIGERATORS AND FREEZERS



- Touch Screen Display





- Alarms for every malfunction

Since 1967

84

For more information • Email: info@anmalliance.com • Tel.: 91-22-6614 1500

PREMIUM BIOMEDICAL -30° C FREEZERS





The PREMIUM Biomedical freezers are designed and manufactured with the latest technology. The body of the freezers is built with thickness of 70mm to maximize the temperature stability in the freezers.

- Large colorful touch screen
- Integrated datalogger with minimum 15 years memory
- Integrated Test mode validation program
- Password protected display
- Multiple temperature graph on screen
- Upload & Download through USB
- Door key lock
- Self closing door
- Magnetic silicone gaskets
- Temperature mapping
- Auto defrost system
- Multiple alarms available

Model	BMF628	BMF1398
Capacity (liter)	628	1398
Temperature range	-30°C / -10°C	-30°C / -10°C
External dimension (W x D x H) mm	740 x 830 x 2035	1480 x 830 x 2035
Solid door	1	2

LAB +1° / +10° C REFRIGERATORS

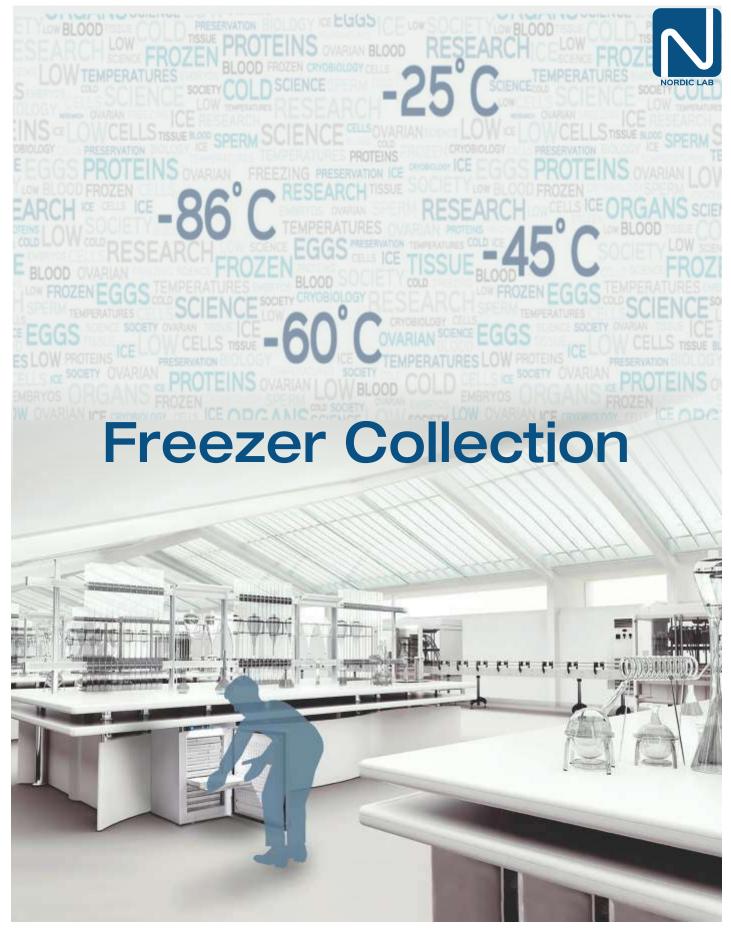


The LAB Requirement Basic Lines $+1^{\circ}/+10^{\circ}$ C is the perfect solution for cold storage in laboratories, universities, hospitals. This line meets the common requirement for basic storage without compromising on the performance

BASIC line Refrigerators are **also available with high-end dual glass door.** When there is a need for **an overview without opening the door**, this is the perfect solution for you. BASIC line is a perfect fit if you do not want to compromise the temperature stability.

- Door lock
- Open door alarm
- Self-closing door
- Solid or glass door
- Automatic defrost
- Air forced cooling
- Magnetic door gasket
- Monoblock refrigeration
- Low energy consumption
- Multiple alarms available

Model	LABREF100	LABREF100G	LABREF628	LABREF628G	LABREF1398	LABREF1398G
Capacity (liter)	100	100	628	628	1398	1398
Temperature range	+1°C / +10°C	+1°C / +10°C	+1°C/+10°C	+1°C / +10°C	+1°C/+10°C	+1°C/+10°C
External dimension (W x D x H) mm	650 x 620 x 860	650 x 620 x 860	740 x 830 x 2035	740 x 830 x 2035	1480 x 830 x 2035	1480 x 830 x 2035
Solid door	yes, 1 solid door	no	yes, 1 solid door	no	yes, 2 solid doors	no
Glass door	no	yes, 1 glass door	no	yes, 1 glass door	no	yes, 2 glass door



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-86°C UPRIGHT FREEZERS



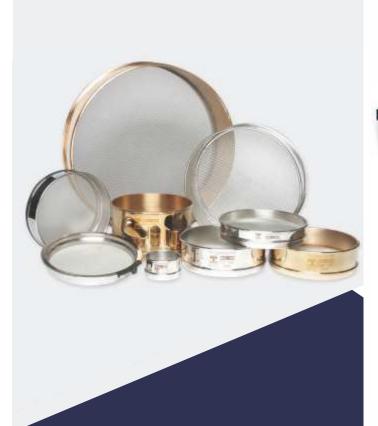


Supreme stability, reliability, user-friendliness and small dimensions make these freezers the perfect choice for use inside the lab.

Low power consumption, natural refrigerant, cyclopentane insulation combined with recyclable materials, makes these freezers environmentally friendly. All Nordic Lab freezers have a unique single stage compressor technology which has been proven for more than 20 years.

- Eco friendly, HCFC free Nature R Refrigerant.
- Easy installation, limited maintenance and low power consumption.
- Ideal for Testing Labs, Research Labs & Hospitals.
- Audible and visual alarms are integrated.
- 48 hours battery backup.
- Automatic door release.
- ISO 9001, 14001, 45001 certified.

MODEL	ULT U35	ULT U100	ULT U250	
Temp Range		-86°C / -60°C		
Material Interior		Stainless Steel		
Material Exterior	Painted Steel	Galvanized, pre-	coated Steel	
External Dimensions (W x D x H) mm	630 x 675 x 650	595 x 690 x 825	600 x 690 x 2055	
Volume (Litres)	37	93	256	
Refrigerant		Nature R		
Energy Consumption (kWh/24h)	3.2	6.7	10.3	
Sound Level	46 db	57 db	64 db	
Power Supply		230V, 50Hz		
Defrost System		Manual		
Access Port	Ø 20 mm	Ø 15	mm	
Shelves (Stainless Steel)	1	2	5	
Compressor Type	Single	Single Stage		
Net Weight	59 kg	60 kg	140 kg	







TEST SIEVES & SHAKERS



wstyler

The industry standard in test sieve shakers, the original W.S. Tyler Ro-Tap[®] has a unique two-dimensional operation: a horizontal, circular motion, and a vertical tapping motion. This special action allows material particles to stratify and "seek" critical openings in the test media. This unit provides the most accurate and consistent particle analysis testing and requires minimal maintenance. The RX-29 is designed for testing with 8-inch diameter test sieves. The RX-30 model is designed for testing with 12 in. diameter test sieves. Each unit is test run and serialized prior to shipment and features a 99-minute digital timer/clock with a tolerance of .1 seconds

RO-TAP[®] RX-29 AND RX-30 MODELS



Number of Sieves

Model	Full Height	Half Height
RX-29 (8 in. or 200 mm diameter)	6 sieves with full height pan	13 sieves with half height pan
RX-30 (12 in. or 300 mm diameter)	4 sieves with full height pan	8 sieves with half height pan
RX-30 (12 in. or 300 mm diameter)	6 sieves with half height pan	8 sieves with half height pan

Specifications	
Oscillations per Minute	278 ± 10
Oscillations Displacement	1-1/8 in. x 7/16 in.
Taps per Minute	150 ± 10
Dimensions	28 in. wide x 21 in. deep x 25 in. high
	(71 cm x 54 cm x 64 cm)
Weight	180 lbs. (82 kg)
Testing Applications	RX-29: 2 in. through US #635 mesh (20 $\mu m)$
	RX-30: 4 in. through US #500 mesh (25 $\mu m)$

AIR JET SIEVES



NEXOPART EML 200

NEXOPART

Precision in an entirely new dimension

With state-of-the-art features and customizable options, EML Series Sieve Shakers can be perfectly tailored to satisfy your particular requirements enabling seamless analysis of materials, regardless of their shape, size, or composition.



NEXOPART EML 315 & EML 450



The **EML 315** is available for wet or dry sieve analysis. You can use this machine for various sieves with diameters of up to 315 mm. The EML 315 for wet sieving differs from the dry sieving version. It is equipped with a cover, with an integrated wide spreading spray diffuser as well as further accessories for wet sieving. Both machine models feature a separate control unit.

The **EML 450** is the heavyweight of the EML series and offers options for wet or dry sieve analysis. With sample weights of up to 15 kg, it offers the largest analysis surface area and is ideal for test sieves with diameters of up to 450 mm. The EML 450 for wet sieving differs from the dry sieving version. It is equipped with a cover, with an integrated wide spreading spray diffuser as well as further accessories for wet sieving.

Both machine models feature a separate control unit.



Sample weights of up to 6 kg (EML 315) & 15 kg (EML 450)

₩) Adjustable amplitudes

Wet and dry sieving

90

Amkette Analytics



The greatest dimension in precision





Sieving material weighing up to 20 kg? Wet or dry sieving? No problem for the NEXOPART UWL 400. It is NEXOPART's largest and most powerful 3D test sieve shaker to date and equipped with two three-phase unbalance motors, it is able to easily analyze large and heavy bulk materials.



The TwinNut[®] quick-release clamping system is ideal particularly when sieving with frequently varying sieve tower heights. Simply open the TwinNut[®], slide it to the desired position on the guide bars, and adapt the height without time-consuming, screwing and unscrewing.

The TwinNut[®] is available for the EML 200 Premium - UWL 400 models.

Sample weights of up to 20 kg



Wet and dry sieving

Two three-phase unbalance motors

NEXOPART e200 LS AIR JET SIEVING MACHINE

Solution for very fine powders



The NEXOPART e200 LS unfolds its full effectiveness exactly where fine powders often clog the test sieve, as they have an increased tendency to agglomerate and make sieve analysis more difficult. The e200 LS, in contrast, is perfectly suited for separating, fractioning and analyzing grain sizes of fine to very fine powders in various branches of industry such as mineral, chemical, pharmaceutical (by complying with 21 CFR Part 11), toner production, food and beverage, cement and construction materials sectors. Quiet, fast and efficient, it delivers accurate measurement results and a high level of reproducibility.







- 2-speed Pump
- Variable-speed Pump
 - Full Connectivity
- Variable-speed Pump
- Full Connectivity
- Open Mode Time/ **Temperature Ramping**



For more information • Email: info@anmalliance.com • Tel.: 91-22-6614 1500 (93)

Since 1967

AmketteAnalytics



PolyScience[®] Temperature Control Solutions[®]

ACHIEVE THE TEMPERATURE YOU WANT, WHEN YOU WANT IT.

PolyScience circulating baths are designed to work hard for your specific needs while making your job more efficient and ensuring the most precise temperature control.

- Reservoir sizes ranging from 6 to 75 liters
- Refrigerated and Heated, Heated and Open Bath models, and Immersion Circulators
- Four types of digital temperature controllers, from the essentials to fully programmable
- Intuitive setup and operation, featuring either multilanguage help or screen prompts (depending on model)

Capacity	7 liter	7 liter	15 liter	15 liter	20 liter	28 liter	45 liter
Maximum Temperature		200 °C					
Minimum Temperature	-20°C	-40°C	-30°C	-40°C	-30°C	-30°C	-25°C
Cooling Capacity @20°C	200 W	360 W	915 W	1000 W	915 W	915 W	1400 W
Working Access (LxWxD) inch	6.2 x 5.6 x 5	6.2 x 5.6 x 5	8.4 x 10.9 x 5.5	8.4 x 10.9 x 5.5	9.9 x 12.5 x 5.5	12.4 x 14.1 x 5.5	21.6 x 15.7 x 5.5
Drain	•	•	•	•	•	•	•
Lid Dock [™]	•	•	•	•	•	•	
Advanced Programmable	AP07R-20	AP07R-40	AP15R-30	AP15R-40	AP20R-30	AP28R-30	AP45R-20
Advanced Digital	AD07R-20	AD07R-40	AD15R-30	AD15R-40	AD20R-30	AD28R-30	AD45R-20
Standard Digital	SD07R-20		SD15R-30		SD20R-30	SD28R-30	
MX	MX07R-20		MX15R-30		MX20R-30		

1 Maximum temperature is controller dependent

GENERAL PURPOSE WATER BATHS



Capacity	20 liter	28 liter		
Temperature Range	Ambient +5°	to 100 °C		
Temperature Stability	±0.1	1°C		
Temperature Uniformity	±0.2 °C			
Heater Wattage	1400	1400		
Working Access (L x W x D) inch	9.5 x 17 x 6 in	9.5 x 17 x 8 in		
Overall Dimensions (L x W x D) inch	22.5 x 17.5 x 12 in	22.5 x 17.5 x 14 in		
Electrical Requirements (V/Hz/A)	240 / 50 / 6	240 / 50 / 6		
Shipping Weight	28 lbs / 12.7 kg			
Part No. 240V	WBE20A12E	WBE28A12E		

PolyScience water baths utilize a full color TFT display. Clear hinged gable cover continues to be a standard feature on all the water baths and the intuitive plainlanguage user interface offers five selectable languages.

Research, communication and listening to customers' needs is what drives the innovation to make the range of PolyScience Water Baths stand out from the competition. These intelligent water baths are the perfect blend of control, convenience, safety and of course, budget.

- Programmable High Limit Value
- Eco Mode
- User-settable alarms: audible & visible
- Displays actual and set point temperature simultaneously
- 5 programmable pre-sets for frequently used temperatures
- Programmable timer
- Hinged gable cover
- Programmable Calibration / Temperature Offset

DURACHILL CHILLERS

PolyScience

15.0

0



DuraChill® Portable Recirculating Chillers are the most effortless chiller on the market. With a wide range of new and exclusive features, DuraChill® Chillers promote ease of use, minimal maintenance and environmental safety. DuraChill® has been designed for future migration to low global warming potential natural refrigerants.

Applications

NEW

- Plasma Thawing
- Condenser Cooling
- CT Scanning
- Bioreactors
- MRI
- Dry Ice Replacement
- PET Scanners
- Tap Water Cooling Replacement
- Distillation
- Laser Cooling

- FT-IR
- ICP
- Injection Molding
- Electron Microscopes
- GC/MS
- Hydraulics Cooling
- Reaction Vessels
- Semi Conductor
- Welder Cooling

Model		CA02	CA03	CA05	CA10		
Cooling Capacity @ 20°C	50 Hz	0.7 kW	1.28 kW	1.84 kW	2.65 kW		
Cooling Capacity @ 10°C	50 Hz	0.5 kW	0.94 kW	1.29 kW	1.9 kW		
Cooling Capacity @ 0°C	50 Hz	0.3 kW	0.49 kW	0.77 kW	1.0 kW		
Fluid Temperature Range		-10 to 70°C					
Temperature Stability			±0.1	1 °C			
Displayable Temperature Units			°C c	or °F			
Displayable Pressure Units			PSI c	or kPa			
Pump Inlet and Outlet			1/2 inch fe	male NPT			
Connectivity		RS-232. USB Serial Port Emulation. USB TMC, Dry Contact On/Off/Status					
Self-Changing Air Filter		Yes					
UV Biological Growth Inhibitor	Yes						
Optional Remote Temperature Probe		Remote monitoring / Remote control					
Ambient Air Temperature Tracking		Yes					
Pump Pressure Range (Turbine Pump)	50 Hz		20 to 75 psi / 1	.38 to 621 kPa			
Pump Pressure Range	50 Hz	20 to 82 psi /	138 to 572 kPa	20 to 82 pci /	138 to 572 kPa		
(Positive Displacement Pump)	50 HZ	20 to 85 psi /	150 to 572 kPd	20 to 65 psi /	130 LU 372 KPd		
Maximum Pump Flow Rate (Turbine Pump)	50 Hz	2.2 qpm	n / 8.3 lpm	2.9 qpm	n / 11 lpm		
Maximum Pump Flow Rate	FO 11-	2.0	1701000	2.0	/ 11		
(Positive Displacement Pump)	50 Hz	2.0 qpm	n / 7.6 lpm	2.9 dpm	n / 11 lpm		
Power Requirements (with Turbine Pump)	50 Hz	240V, 50Hz, 8.9A	240V, 50Hz, 9.0A	240V, 50Hz, 9.2A	240V, 50Hz, 13.5A		
Power Requirements	50.11-		2401/ 5011- 0.24				
(with Positive Displacement Pump)	50 Hz	240V, 50Hz, 8.2A	240V, 50Hz, 8.3A	240V, 50Hz, 8.5A	240V, 50Hz, 12.0A		
Part Number (with Turbine Pump)	50 Hz	CA02A2T1-41AA1N	CA03A2T1-41AA1N	CA05A2T1-41AA1N	CA10A2T1-41AA1N		
Part Number	FOUL	CA02A2D1 41AA1N					
(with Positive Displacement Pump)	50 Hz	CA02A2P1-41AA1N	CA03A2P1-41AA1N	CA05A2P1-41AA1N	CA10A2P2-41AA1N		

Note: Specifications are subject to change

For more information • Email: info@anmalliance.com • Tel.: 91-22-6614 1500

Since 1967

DURACHILL[®] BENCHTOP CHILLERS





- Intuitive touchscreen display with 5 operating languages
- Continuous fluid level monitoring
- Variable fan speed technology
- UV light biological growth inhibitor
- Patented self-diagnostic system
- Fluid temperature range of -30 to 30°C
- Temperature stability of ±0.1°C
- Displayable temperature units in °C
- Displayable pressure units in kPa or PSI
- Easy-priming pump
- Environmentally friendly natural refrigerant option

The natural refrigerant option is better for the environment and also achieves a low temperature of -30°C, making DuraChill Benchtop the coldest in its class.

Refrigeration stepper valves

Saving energy and providing more precision and efficiency to your cooling process, even at lower temperatures.

• Hot gas bypass

Adding an additional level of safety to each unit.

Remote probe

Control a jacketed reactor or any other process that requiring a secondary temperature sensor with the easily-equippable optional remote probe.

Model		BA05 (R134a)	BA05 (R290)	BA06 (R134a)	BA06 (R290)
Operating Temperature Range		-10° to 30°C	-10° to 30°C	-20° to 30°C	-30° to 30°C
Cooling Capacity @ 20°C ¹	50 Hz	400 W ⁺	400 W ⁺	1000 W ⁺	1050 W^{\dagger}
Cooling Capacity @ 10°C ¹	50 Hz	375 W⁺	350 W [†]	700 W ⁺	875 W [⁺]
Cooling Capacity @ 0°C ¹	50 Hz	350 W ⁺	250 W [⁺]	450 W ⁺	650 W^{\dagger}
Cooling Capacity @ -10°C ¹	50 Hz	200 W ⁺	150 W^{\dagger}	250 W ⁺	500 W ⁺
Reservoir Capacity		0.4 gal / 1.5 L			
Pump Inlet and Outlet	ump Inlet and Outlet			male NPT	
Connectivity		RS-232. USB-B, Dry Contact On/Off/Status, Remote Probe			
UV Biological Growth Inhibitor		Yes			
Optional Remote Temperature Probe			Remote monitorin	g / Remote control	
Ambient Air Temperature Tracking			Ye	25	
Maximum Sound Level (at 1m)			60 d	BA	
Maximum Pump Pressure			16.5 psi /	114 kPa	
Maximum Pump Flow Rate			6.4 qpm / 2	24.6 lpm	
Power Requirements	50 Hz	240V, 50Hz, 2.4A	240V, 50Hz, 2.5A	240V, 50Hz, 2.5A	240V, 50Hz, 3.2A
Part Number	50 Hz	BA05A0G3-310A13E	BA05E0G3-310A13E	BA06A0G3-310A13E	BA06E0G3-310A13E
Unit Weight		24.3 kg			
Shipping Weight		35.5 kg			
Dimensions			16.9 x 9.1 >	18.4 inch	

1. Cooling capacity based on a 50%/50% mix of ethylene glycol and distilled water as coolant at ambient temperature of 20°C.

⁺ For conversion of W to BTU/hr, multiply by 3.412





LABORATORY INSTRUMENTS





UNIVERSAL WATER BATH

- Circulating bath
- Refrigerated bath
- Chiller
- General purpose bath



ANMIndustries

CIRCULATING / REFRIGERATED WATER BATH /CHILLER



- External Circulation
- Dual display with 7 segment LED display
- R-134a / R-404a CFC free Refrigerant

ORDERING INFORMATION

Order Code Description

- High temperature cut-off* (WB-Adv only)
- Low level cut-off*
- RS485 is also available* (WB-Adv only)

WB 2000

WB 2100

WB 2000V

WB 2100V

WB 2200V

WB 2300V

ORDERING INFORMATION Order Code Description WB 2000-Adv Circulating Waterbath, -10°C to 100°C, 5 Ltr. Horizontal WB 2100-Adv Circulating Waterbath, -20°C to 100°C, 5 Ltr. Horizontal WB 2000V-Adv Circulating Waterbath, -10°C to 100°C, 5 Ltr. Vertical

WB 2100V-Adv Circulating Waterbath, -20°C to 100°C, 5 Ltr. Vertical WB 2200V-Adv Circulating Waterbath, -30°C to 100°C, 9 Ltr. Vertical WB 2300V-Adv Circulating Waterbath, -40°C to 100°C, 9 Ltr. Vertical

*NEW Advance Series

GENERAL PURPOSE WATER BATH



WBGP Series

- Microprocessor based PID Controller
- PC Interface with RS-485
- Hinged gable cover
- Acoustic and Visual alarms for temperature
- Reservoir made of SS304
- Reservoir drain
- Electrical heaters connected to the outer surface for gentler and stable heating of the media

Circulating Waterbath, -10°C to 100°C, 5 Ltr. Horizontal

Circulating Waterbath, -20°C to 100°C, 5 Ltr. Horizontal

Circulating Waterbath, -10°C to 100°C, 5 Ltr. Vertical

Circulating Waterbath, -20°C to 100°C, 5 Ltr. Vertical

Circulating Waterbath, -30°C to 100°C, 9 Ltr. Vertical

Circulating Waterbath, -40°C to 100°C, 9 Ltr. Vertical

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DEEP FREEZER & COOLING CABINET





- Microprocessor based PID Controller
- PC Interface with RS-485
- Automatic defrost with re-evaporation of defrost water
- 8 mm access port on top
- Double walled 80mm PUF insulation (Deep Freezer)
- Double walled 60mm PUF insulation (Cooling Cabinet)
- Acoustic and Visual alarms for temperature and door
- Door alarm when door open for extended period of time

CC 600

600 Litres

2° to 10°C

CC 900

900 Litres

- Efficient air distribution system ensures the temperature inside the cabinet remains stable at all times
- CFC Free Refrigerant

CC 400

400 Litres

Deep Freezer

Model No	DF 400	DF 600	DF 900	
Volume	400 Litres	600 Litres	900 Litres	
Temperature Range	-25°C to 0°C			

ULTRASONIC CLEANER



Advanced MOSFET technology aids in generating efficient sonicaction. The Ultrasonic cleaner with various operation modes like degassing, Cleaning, Sweep modes gives optimum

• Powerful and reliable cleaning.

uses of the Sonicator in its application.

- Built-in micro processor controller with MOSFET based technology.
- Built-in digital thermometer and timer to set an optimum condition for cleaning.
- Easy to read operation status on digital display.
- With SS lead & basket

Cooling Cabinet

Temperature Range

Model No

Volume

Frequency 30 ±3 KHz



Order Code	USC100	USC200	USC300	USC400	USC500
Volume Capacity	1.5 Ltr.	3 Ltr.	5.5 Ltr.	10 Ltr.	20 Ltr
Temperature Range	Fixed @ 45°C	RT to 70°C	RT to 70°C	RT to 70°C	RT to 70°C
Bath Dimension [L x W x H mm]	240 x 140 x 65	200 x 150 x 100	250 x 200 x 110	300 x 200 x 150	450 x 300 x 150
Basket Size [L x W x H mm]	210 x 110 x 40	180 x 130 x 60	230 x 180 x 60	280 x 180 x 100	400 x 250 x 100
Ultrasonic Power	50 Watts	100 Watts	150 Watts	300 Watts	500 Watts
Timer Range	0 - 15 min	0 - 60 min	0 - 60 min	0 - 60 min	0 - 99 min
Rated Supply	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC







Freeze dryer is widely used in medicine, pharma, biology research, chemical industry and food production, etc. Freeze drying process ensures easy long term preservation of materials/samples.

The vacuum freeze drying technology, which is also called sublimation drying, is a technical method that freezes the samples in advance, and then sublimates its moisture under vacuum state.

- Condenser, trays, drying shelf and pre-freezing shelf are made of stainless steel 304, anti-corrosion.
- Color LCD touch screen display.
- Condenser with uniform and good ice capture function.
- Transparent acrylic drying chamber.
- Vacuum pump with high pumping speed, to reach good final vacuum.
- CFC-free refrigerant, low noise, good efficiency.

Order Code	FD-50	FD-80	FD-50B	FD-80B
Condenser temperature	-50°C	-80°C	-50°C	-80°C
Tray Dimension	200mm dia x 4 layers	200mm dia x 4 layers	200mm dia x 4 layers with 8 ports manifold	200mm dia x 4 layers with 8 ports manifold
Freeze Drying Area	0.12m ²			
Condenser Capacity	3-5kg			
Vacuum degree	< 10 Pa			
Bulk Capacity	1.2L, 10mm thickness			
Voltage	220V, 50Hz			
Power	700W			
Dimension [L x W x H]	460 x 625 x (370 + 465) mm			

ORDERING INFORMATION				
Order Code	Description			
FD-50	Freeze dryer -50°C, 4 layers			
FD-50B	Freeze dryer -50°C, 4 layers with 8 ports manifold			
FD-80	Freeze dryer -80°C, 4 layers			
FD-80B	Freeze dryer -80°C, 4 layers with 8 ports manifold			

ACCESSORIES		
FD-NV	Nitrogen Valve	
FD-COM Communication Interface		

ELECTROMAGNETIC SIEVE SHAKER





Amplitude (2.5 mm)

Order Code	SSA 200	SSA-200-A		
Display	16 x 2 character alphanumeric LCD	7" Touch Screen High Resolution, Resistive		
Intermittent operation	At interval Upto 0.5 seconds			
Capacity	Upto 8 Sieves of 50 mm height			
Shake time	Programmable from 1min to 99 min			
Power (Vibration) level	Programmable from 5 to 20	Programmable from 1 to 20		
Max.Batch / Feed Capacity	3 Кg			
Noise level	Less than 61 dB without sieves at maximum amplitude			
	Less than 71 dB without sieves and material at maximum amplitude			
Dimensions [L X W X H]	339 X 312 X 270mm	385 X 305 X 245mm		
Weight	50 Kg Approx without sieves	35 Kg Approx without sieves		
Power	220 / 230 V AC, 50 Hz, 600 Watts			
Standard Supply	Main Unit + Lid + Receiver + 2 Nos. of sieves	Main Unit + Lid + Receiver + 8 Nos. of sieves		
	(Mesh Size from 5.6 mm to 40 μm with compliance certificate, S - 200 XX user selectable)			
User Management	_	4 level password (1 admin, 9 users)		
Data Storage	-	50 datas		

TEST		





Indian Style



Bood Diffee Million Robert Robert Schlassen Robert Schlassen Robert Schlassen Robert Schlassen	no.3. 10.030400 ha t Dobb100	AM	NM Ind	dustries	
	cate Of Compliance liver test Sieves of h alent, compliance requirements	ighest qua Gradel.cor	ity.Every test : forms to the t	pecification	ent
	ASTM 20		Mesh S 850 µ		
Ser	ial No. : Al 17	01	AN		
	Ce	ertifi	cate		Optional ABL Calibri Certifica
	ET 200	2	er filte	-	

Calibration certificate

AmketteAnalytics



- Sieves made from stainless steel (Mesh- SS 316 / Ring- SS 304) with laser marking of specification & serial number
- Specially designed sieves without crevasses and without Lead
- No soldering process involved
- Lead free, which makes it ideal for food grade products

	Calibration certificate					
	Internatio Compa	nal Test Si rison Tabl		200 mm/8 Inch Brass Frame <i>Indian Style</i>	200 mm/8 Inch SS Frame Indian Style	200 mm/8 Inch SS Frame International Style
Bss BSI	ASTM 4∰)	ISS 150	Mesh Size	non Certified	non Certified	With Certificate
3	3.35	5.6	5.6 mm	IBS 200-5.6 mm	ISS 200-5.6 mm	S 200-5.6 mm
		5	5 mm			S 200-5 mm
3.5	4	4.75	4.75 mm	IBS 200-4.75 mm	ISS 200-4.75 mm	S 200-4
		4.5	4.5 mm			S 200-4.5 mm
4	5	4	4 mm	IBS 200-4 mm	ISS 200-4 mm	S 200-5
		3.55	3.55 mm			S 200-3.55 mm
5	6	3.35	3.35 mm	IBS 200-3.35 mm	ISS 200-3.35 mm	S 200-6
		3.15	3.15 mm			S 200-3.15 mm
6	7	2.8	2.8 mm	IBS 200-2.8 mm	ISS 200-2.8 mm	S 200-7
		2.5	2.5 mm			S 200-2.5 mm
7	8	2.36	2.36 mm	IBS 200-2.36 mm	ISS 200-2.36 mm	S 200-8
		2.24	2.24mm			S 200-2.24mm
8	10	2	2 mm	IBS 200-2 mm	ISS 200-2 mm	S 200-10
		1.8	1.8 mm			S 200-1.8 mm
10	12	1.7	1.7 mm	IBS 200-1.7 mm	ISS 200-1.7 mm	S 200-12
		1.6	1.6 mm			S 200-1.6 mm
12	14	1.4	1.4 mm	IBS 200-1.4 mm	ISS 200-1.4 mm	S 200-14
		1.25	1.25 mm			S 200-1.25 mm
14	16	1.18	1.18 mm	IBS 200-1.18 mm	ISS 200-1.18 mm	S 200-16
		1.12	1.12 mm			S 200-1.12 mm
16	18	1	1 mm	IBS 200-1 mm	ISS 200-1 mm	S 200-18
		900	900 µ			S 200-900 μ
18	20	850	850 μ	IBS 200-850 μΙ	ISS 200-850 μ	S 200-20
		800	800 μ			S 200-800 μ
22	25	710	710 μ	IBS 200-710 μ	ISS 200-710 μ	S 200-25
		630	630 μ			S 200-630 μ
25	30	600	600 μ	IBS 200-600 μ	ISS 200-600 μ	S 200-30
		560	560 μ			S 200-560 μ

Since 1967

TEST SIEVE



	Internatio Compa	nal Test Si rison Tabl		200 mm/8 Inch Brass Frame Indian Style	200 mm/8 Inch SS Frame Indian Style	200 mm/8 Inch SS Frame International Style
Bss BSI	ASTM 4∰)	ISS	Mesh Size	non Certified	non Certified	With Certificate
30	35	500	500 μ	IBS 200-500 μ	ISS 200-500 μ	S 200-35
		450	450 μ			S 200-450 μ
36	40	425	425 μ	IBS 200-425 μ	ISS 200-425 μ	S 200-40
		400	400 μ			S 200-400 μ
44	45	355	355 μ	IBS 200-355 μ	ISS 200-355 μ	S 200-45
		315	315 μ			S 200-315 μ
52	50	300	300 µ	IBS 200-300 μ	ISS 200-300 μ	S 200-50
		280	280 μ			S 200-280 μ
60	60	250	250 μ	IBS 200-250 μ	ISS 200-250 μ	S 200-60
		224	224 μ			S 200-224 μ
72	70	212	212 μ	IBS 200-212 μ	ISS 200-212 μ	S 200-70
		200	200 μ			S 200-200 μ
85	80	180	180 μ	IBS 200-180 μ	ISS 200-180 μ	S 200-80
		160	160 μ			S 200-160 μ
100	100	150	150 μ	IBS 200-150 μ	ISS 200-150 μ	S 200-100
		140	140 μ			S 200-140 μ
120	120	125	125 μ	IBS 200-125 μ	ISS 200-125 μ	S 200-120
		112	112 μ			S 200-112 μ
150	140	106	106 µ	IBS 200-106 μ	ISS 200-106 μ	S 200-140
		100	100 μ			S 200-100 μ
170	170	90	90 µ	IBS 200-90 μ	ISS 200-90 μ	S 200-170
		80	80 μ			S 200-80 μ
200	200	75	75 μ	IBS 200-75 μ	ISS 200-75 μ	S 200-200
		71	71 μ			S 200-71 μ
240	230	63	63 μ	IBS 200-63 μ	ISS 200-63 μ	S 200-230
		56	56 μ			S 200-56 μ
300	270	53	53 μ	IBS 200-53 μ	ISS 200-53 μ	S 200-270
		50	50 μ			S 200-50 μ
585	325	45	45 μ	IBS 200-45 μ	ISS 200-45 μ	S 200-325
		40	40 µ			S 200-40 μ
400	400	38	38 µ	IBS 200-38 µ	ISS 200-38 μ	S 200-400
		36	36 μ			S 200-36 μ
		32	32 μ			S 200-450
500	500	25	25 μ	IBS 200-25 μ	ISS 200-25 μ	S 200-500
600	600(635)	20	20 μ	IBS 200-20 μ	ISS 200-20 µ	S 200-600(635)

LEAK TEST APPARATUS (LTA 201-N)





Leak Test Apparatus is designed with utmost precision using top notch quality material and advanced equipment. It comprises of a polycarbonate desiccator housing to sustain the vacuum for long time. It finds wide applications in numerous industries such as food, pharmaceuticals, chemicals etc. This apparatus is also used to test the quality of packing process in strips, blisters and sachets containing tablets, granulates and liquids

- 5" resistive high quality touch screen
- 50 tests and 50 methods with Date and Time
- SS 304 enclosure
- Selectable Pressure Unit
- Interfaces : LAN, RS-232, External 80/40 Column Printer
- Self-Test with Error diagnosis for Valves, Pumps and Sensor
- Password protection

Order Code	LTA 201
Vacuum Range	50-600 mmHg
Accuracy	Better than +/- 10 mmHg
Hold Time	Upto 60 min
Desiccator	8" or 10" or 12" (Optional)
Display	5" Touch screen
Real Time Clock	Yes
Dimension (WxDxH) mm	360 X 260 X 170
Weight	12 Kg
Power Supply	230 V, 50 Hz, 1 Phase

TABLET HARDNESS TESTER - PORTABLE



This handheld, easy to operate and compact instrument with very high accuracy for the tablet hardness testing gives direct test results on the digital display with audio and visual alarms.

- High levels of accuracy with peak force measurements.
- Easy to operate and handy to carry.
- Force gauge displays the test direction.
- Allows for real time data transfer.
- Can store 10 test values and calculate the average of the stored test value automatically.
- Zero point adjustment for calibration.

Description	THT 101		
Display	LCD with backlit display		
Keypad	User Friendly 9 Keys operations		
Hardness Range	5-500N		
Hardness Accuracy	±0.05% FS		
Measurable Units	N (Newton), KGF (KiloGram Force) and LBF (Low Bound Force)		
Interface Ports	RS232		
Battery	1200 mAH, 8.4V, Ni-MH rechargeable battery		
Acrylic Safety Glass Cover	Yes		
Tablet Size	2mm to 28mm		
Dimensions [L x B x H] mm	355 x 60 x 105		
Electrical Power / Adapter	230V 50 Hz to DC 12V, 300mA		

HOT PLATE MAGNETIC STIRRER





- Robust top made of nano-crystalline glass ceramic for resistance against temperature shocks and liquid splash
- Elevated control panel for protection against leaking liquids
- Display for easy value setting, all set values readily visible without toggle. • No shared display
- 3 heating modes for rapid, gradual & accurate heating
- Pulse mode for vigorous mixing of liquids
- Constant speed across diverse loads and viscosity
- Compatible with PT- 1000 Temperature Probe for accurate measurement of media temperature (available as an optional accessory)
- Powerful BLDC motor for constant speed delivery under varying load conditions

Order Code	MS 101	MS 303	
Speed Range	200 - 2200 in steps of 10 RPM		
Dimensions (L x W x H)	156 X 248 X 155 mm	330 X 225 X 113 mm	
Stirring Quantity in Ltr (Max)	10	20	
Heating Temp. Range (°C)	Ambient to 320°C	Ambient to 550°C	
Set-up Plate Feature	Ceramic Coated SS	Ceramic Plate	
Set-up Plate Dimensions	140 mm dia (Round) 180 X 180 mm		
RS 232 interface	N.A Yes		
Weight	1.4 kg 4.9 kgs		
Temp. Accuracy	±1°C		
IP Rating	IP 21		
Safety Temp. Circuit	Yes		
Slip Detection	Yes		

OVERHEAD STIRRER



Order Code	OHS 200
Capacity [H ₂ O]	25 ltr.
Speed Range	50-2000 RPM
Torque	20 Ncm
Viscosity	10000 mPas
Timer	1 min to 99 hr 59 mins & infinite mode
Dimensions [L X W X H]	79 X 221 X 179 mm
Protection Class	IP 54
Weight	1.8 kg

• Brushless DC motor for quiet operation and maintenance free long operation

- Microprocessor controlled for consistent accuracy with viscous and nonviscous liquids
- Reversible mixing motion CW/CCW
- Large digital display for all the parameters at one glance
- Uninterrupted operation through Smart control

OHS-B

Cross-Welded

OHS-E

Pivoting Blade

- Safety cut-off for overload, over current & over temperature
- Counter reaction to speed change
- Push through shaft for viscous liquid or smaller vessels



OHS-G

OHS-F **Collapsible Blade**

Square Blade





OHS-J

OHS-H Anchor Blade

Paddle Blade

Since 1967

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VORTEX MIXER (VM 101)

Vortex Mixer assures the highest performance in terms of speed, reliability, precision and safety. It has a variable speed with digital control that allows low RPM start-up for gentle shaking and high speed mixing of vigorous vortexing samples.

- Continuous and touch operations
- Brushless DC motor for maintenance free long life.
- Steady and safe operation
- Variable timer from 1 min to 999 min for continuous operation
- Can be used in hoods & cold rooms
- Specially designed vacuum suction feet hold to the surface and prevent the unit from moving
- Aluminum cast base

Description	Specifications	9		
Orbital diameter [mm]	4			and the second
Motor type	Brushless DC motor			ALC: NOT THE REAL PROPERTY OF
Speed range [RPM]	300-4200	A CONTRACTOR		
Display	Digital RPM / Time			
Run type	Continuous / Touch	Flask	96 Well Micro Plate	Micro Centrifuge Tube 20 x 1.5/2m
Dimensions (mm)	205 x 136 x 139 (W x D x H)			
Protection class acc. to DIN 60529	IP21			
Supply Voltage / Adapter details	110-240VAC input to adapter, 24V DC , 1.5 A output			
Power	20 W			
Weight	3 Kg	Cup	Attachment Roun	d Disc

UNIVERSAL STATISTIC PRINTER

Specifications



The balance printer USP -100 has a streamlined appearance, completely meets the quality requirements of the chemical and pharmaceutical industry and GLP/GMP standard certification.

- Various modes of operation for different applications: Direct Mode, Interval Printing, Statistical (Sum, Mean etc.), Formulation, Pipette Calibration, Comparator Mode
- Prints Time and Date information when hooked to a balance without clock function.
- Password Protection for Date / Time Setting.
- Plug and Play Interfacing.
- Enhanced Support for ISO/GLP.
- User Defined Header & Footer.

Display	Alpha Numeric LED Display	
Printing	• Method	: Impact dot matrix
	• Speed	: 2.7 lines/sec. (approx.)
	Printer mechanism durability	: 1.5 million lines
	Character size	: 1.7mm (W) × 2.6mm (H) ASCII
	Inking	: Ink ribbon
	Print format	: 24 digits / line (5 × 7 dot matrix)
	• Paper	: Normal paper 57.5mm width
Interface	Compatible with all types of We	ighing balances having RS232 & DB9 interfacing facility
Power Supply	12 V DC /1.5 A	
Dimension [L x W x H]	188.5 x116 x 87mm	

ABEL FLASH POINT APPARATUS





• Conforms to ASTM D-93, IP-34 & IS1448 standards

Digital temperature controller cum indicator & PT-100 sensor

- Outer body made of heavy gauge mild steel, painted with powder coated paint
- Digital temperature controller cum indicator & PT-100 sensor
- Electrically heated model with metallic heating plate with gas jet/oil test jet and manual stirrer

Order Code	AFP - D
Supply	230V AC, Single Phase, 50 Hz
Standard Package	• Thermometer IP-74C - 1 No
Contains	• Thermometer IP-75C - 1 No
	Energy Regulator
	Test Cup made of Brass
	Water Bath (Heating Vessel) Made of copper
	Manual Stirrer
	 Oil test Jet OR Gas test jet with control valve and silicon tubing

PENSKY MARTENS CLOSED CUP FLASH POINT APPARATUS



Electrically heater	ed model
Order Code	PMCC - D
Supply	230V AC, Single Phase, 50 Hz
Standard Package Contains	 Thermometer IP-15C/ASTM-9C - 1 No Thermometer IP-16C/ASTM-10C - 1 No Test Cup & Cup Cover Pilot Flame Motorized Stirrer Heating Unit
	- Oil test ist OD Costest ist with sented we way (W sense stice will sen twice

Outer body made of heavy gauge mild steel, painted with powder coated paint

• Oil test jet OR Gas test jet with control valve, 'Y' connection, silicon tubing & rubber tubing

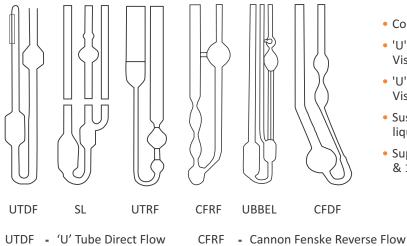
CLEVELAND OPEN CUP FLASH POINT APPARATUS - DIGITAL



- Conforms to ASTM D-92, IP-36 & IS1448 (P-69) standards
- Electrically heated model with metallic heating plate
- Manually controlled flame
- Outer body made of heavy gauge MS powder coated
- Digital temperature controller cum indicator & PT-100 sensor

Order Code	COC - D
Supply	230V AC, Single Phase, 50 Hz
Standard Package Contains	 Thermometer IP-28C - 1 No Open Cup with handle Clamp for thermometer Oil test jet OR Gas test jet with control valve and silicon tubing

'U' TUBE VISCOMETER



CFDF

SL Suspended Level

ORDERING INFORMATION

Order Code	Description	
UBBELOHDE VISCOM	IETER for transparent liquids	
UBBEL-1	Size number 1 - Viscosity range from 2 to 10 cSt	
UBBEL-1C	Size number 1C - Viscosity range from 6 to 30 cSt	
UBBEL-1B	Size number 1B - Viscosity range from 10 to 50 cSt	
UBBEL-2	Size number 2 - Viscosity range from 20 to 100 cSt	_
CANNON-FENSKE RC	OUTINE VISCOMETER DIRECT FLOW TYPE for transparent liquids	
CFDF-75	Size number 75 - Viscosity range from 1.6 to 8 cSt	
CFDF-100	Size number 100 - Viscosity range from 3 to 15 cSt	
CFDF-150	Size number 150 - Viscosity range from 7 to 35 cSt	
CFDF-200	Size number 200 - Viscosity range from 20 to 100 cSt	
CFDF-300	Size number 300 - Viscosity range from 50 to 200 cSt	
CFDF-350	Size number 350 - Viscosity range from 100 to 500 cSt	
CFDF-400	Size number 400 - Viscosity range from 200 to 1200 cSt	
CANNON-FENSKE VI	SCOMETER REVERSE FLOW TYPE for opaque liquids	
CFRF-75	Size number 75 - Viscosity range from 1.6 to 8 cSt	
CFRF-100	Size number 100 - Viscosity range from 3 to 15 cSt	
CFRF-150	Size number 150 - Viscosity range from 7 to 35 cSt	
CFRF-200	Size number 200 - Viscosity range from 20 to 100 cSt	
CFRF-300	Size number 300 - Viscosity range from 50 to 200 cSt	
CFRF-350	Size number 350 - Viscosity range from 100 to 500 cSt	
BS/IP U RF VISCOME	TER for opaque liquids	
UTRF-1	Size number 1 - Viscosity range from 0.6 to 3 cSt	
UTRF-2	Size number 2 - Viscosity range from 2 to 10 cSt	
UTRF-3	Size number 3 - Viscosity range from 6 to 30 cSt	
UTRF-4	Size number 4 - Viscosity range from 20 to 100 cSt	
UTRF-5	Size number 5 - Viscosity range from 60 to 300 cSt	
BS/IP SL VISCOMETE	R for transparent liquids	
SL-1	Viscosity range 3.5 to 10 cSt	
SL-1A	Viscosity range 6 to 30 cSt	
SL-2	Viscosity range 20 to 100 cSt	
SL-2A	Viscosity range 60 to 500 cSt	
BS/IP U DF VISCOME	TER for transparent liquids	
UTDF-A	Viscosity range 1 to 5 cSt	
UTDF-B	Viscosity range 2 to 15 cSt	
UTDF-C	Viscosity range 6 to 45 cSt	
UTDF-D	Viscosity range 20 to 120 cSt	
UTDF-E	Viscosity range 60 to 500 cSt	

Cannon Fenske Direct Flow





- Conforms to ASTM D-445 & 446.
- 'U' Tube Reverse Flow / Cannon Fenske Reverse Flow Viscometers for opaque liquid.
- 'U' Tube Direct Flow / Cannon Fenske Direct Flow Viscometers for transparent liquid.
- Suspended Level / Ubbelohde Viscometers for transparent liquid.
- Supplied with test certificate of constant @40°C or @40°C & 100°C.

UITRF - 'U' Tube Reverse Flow UBBEL Ubbelohde Viscometer

Since 1967

KINEMATIC VISCOSITY BATH





ANM Kinematic Viscosity baths are used in determination of viscosity of fluids. These units conform to specifications and methods as per **ASTM D-445/446 and IP -71 standards**. The apparatus are supplied with standard accessories used in the method.

- Double walled constructions, outer body made of heavy gauge mild steel, painted with powder coated paint, inside made of stainless steel.
- Glass wool insulation to prevent heat loss.
- Leak proof argon arc welded & fine finished joints.
- Toughened glass windows with In-built light arrangement.
- A stirrer for turbulence free agitation & uniform temp. throughout the bath.
- Digital temperature controller cum indicator and PT-100 sensor.

Description	
Temperature Range	Ambient +5°C to 120°C
Display Resolution	0.1°C (0.01°C up to 99.99°C and above 100°C will be 0.1°C in KVB-04-P Model.)
Accuracy	± 0.05°C
Heater wattage	1.5 KW
Supply	230V AC, Single Phase
Standard Package Contains	 Thermometer IP-32C / IP-66C / IP-92C (Any One) - 1 No Viscometer Holder made of Bakelite Digital Stop Watch -1No.

H2O STABILIZER



- Stops/minimizes the biological breeding of bacteria, algae, fungus in instrument where water is stored
- Water changing duration is minimized
- Heat-transfer efficiency is maintained
- The transparency/cleanliness of water is maintained
- All contact parts are protected against corrosion
- Safe to use
- Biodegradable
- Non irritating to skin at recommended concentrations
- It can also be used as a general purpose fluid for routine Laboratory applications

FOAMLESS DETERGENT & NEUTRALIZER FOR LAB GLASSWARE WASHER/DRYER



- Glassware Washing Machines require foamless surfactant free detergent for trouble free operation.
- Detergent & Neutralizer are available in pack size of 10 liters along with Certificate of Analysis (COA).

ORDERING INFORMATION		
Order Code	Description	
FLD	Foamless Detergent for Glassware Washer,10 Ltr.	
FLN	Neutralizer for Glassware Washer, 10 Ltr.	

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Am	<mark>kette</mark> Anal	ytics
Am	ketteAnal	YTICS



- IP65 Water Proof Rating
 - OIML approval from Delta (approval no.DK0199.165)
 - Stainless steel housing and load cell
 - Applications: Check weighing Accumulation Animal weighing Peak hold
 - 52mm LCD, Display with white backlight
 - Capacities : 30kg ~ 300kg
 - Max. Divisions : 3,000e; 15,000d
 - Keyboard : 7keys (Mechanical switch)
 - Housing:SST
 - Power : Input AC 100~240V, 50/60HZ
 Output DC 12V/500mA
 6V/4Ah rechargeable battery as standard
 - Optional RS-232 interface to connect to computer or printer
 - Optional analog output (4V~20mA/0~10V)
 - Optional bluetooth
 - Optional initial-verification

Order No.	Capacity	Readability	Class	Approx Weight	Pan size
BWS-4050-60K	60 kg	5 g	II	21 kg	400 x 500 mm
BWS-4050-150K	150 kg	10 g	II	21 kg	400 x 500 mm
BWS-6050-60K	60 kg	5 g	II	27 kg	650 x 500 mm
BWS-6550-150K	150 kg	10 g	II	27 kg	650 x 500 mm
BWS-6550-300K	300 kg	20 g	II	27 kg	650 x 500 mm



BWS WATERPROOF PLATFORM SCALES

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- 52mm LCD Display with white LED backlight
- Capacities : 30kg~600kg
- Max. Divisions : 3,000e; 15,000d
- Housing : ABS plastic indicator
- Keyboard : 7keys (Mechanical switch)
- Power : Input AC 100~240V, 50/60HZ
 - Output DC 12V/500mA

6V/4Ah rechargeable battery (Not Included)

- Application : Check weighing Accumulation Animal scale - Keyboard lock
- Aluminum Diecast Platform & MS Platform Options
- Battery provides up to 70 hours of continuous use (without backlight)
- Optional RS-232 interface
- Optional analog output (0-10V/4-20mA)
- Optional setpoint output (HI/OK/LOW/BEEP)
- Optional bluetooth
- OIML approval from DELTA (Approval No.DK0199.411)

Order No.	Capacity	Readability	Class	Approx Weight	Pan size
BWS-60KS	60 kg	5 g	II	16.4 kg	350 x 450 mm
BWS-150KS	150 kg	10 g	II	16.4 kg	350 x 450 mm
BWS-60KM	60 kg	5 g	II	18.3 kg	420 x 520 mm
BWS-150KM	150 kg	10 g	II	18.3 kg	420 x 520 mm
BWS-300KM	300 kg	20 g	II	18.3 kg	420 x 520 mm
BWS-300KL	300 kg	20 g	II	65.4 kg	600 x 800 mm

Q7 SERIES BENCHTOP SCALES







- Touchscreen : 7" TFT Colour Display
- TOS I Embedded Operating System(454MHz)
- PLU Product Management
- Sleep function
- 128mb RAM, 256mb Flash memory
- Detailed Weighing Records
- Visible print format
- Capacities : 6kg ~ 30kg
- Max. Divisions : 3,000e; 2 x 3,000e; 30,000d
- Pan size : 230 x 300mm
- 2 x USB high speed; 1 x RS-232 Interface
- OIML approval from Delta (approval no. DK0199.589)
- Housing : ABS plastic
- Keyboard : 5keys (Mechanical switch)
- Power : Input AC 100 ~ 240V, 50/60HZ
 Output DC 12V/2500mA
 6V/4Ah rechargeable battery (Not Included)

Order No.	Capacity	Readability	Class	Approx Weight	Pan size
Q7-20-6K-M	6 kg	2 g	III	5.1 kg	230 x 300 mm
Q7-20-15K-M	15 kg	5 g		5.1 kg	230 x 300 mm
Q7-20-6K-MR	3/6 kg	1/2 g	III	5.1 kg	230 x 300 mm
Q7-20-15K-MR	6/15 kg	2/5 g	III	5.1 kg	230 x 300 mm

S29 SERIES WATERPROOF SCALES

M Roffs CE 📠





- IP65 Water Proof Rating
- Weighing units conversion
- With hand breathable knob design
- OIML approval from Delta (approval no.DK0199.255)
- Battery provides up to 70 hours of continuous use(without backlight)
- Optional 20mm rear display
- 25mm LCD, Display with white backlight
- Capacities : 3kg ~ 25kg
- Max. Divisions : 3,000e; 2 x 3,000e; 6,000d
- Platform size : 230 x 190mm
- Housing : SST
- Keyboard : 3keys (Mechanical switch)
- Power : Input AC 100 ~ 240V, 50/60HZ
 - Output DC 12V/500mA 6V/4Ah rechargeable battery as standard

Order No.	Capacity	Readability	Class	Approx Weight	Pan size
S29-3K-M	3 kg	1 g	III	4.2 kg	230 x 190 mm
S29-6K-M	6 kg	2 g	III	4.2 kg	230 x 190 mm
S29-15K-M	15 kg	5 g	III	4.2 kg	230 x 190 mm
S29-25K-M	25 kg	10 g	III	4.2 kg	230 x 190 mm
S29-6K-MR	6 kg	1g/2g	III	4.2 kg	230 x 190 mm
S29-15K-MR	15 kg	2 g / 5 g	III	4.2 kg	230 x 190 mm
S29-25K-MR	25 kg	5 g / 10 g	III	4.2 kg	230 x 190 mm

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CHROMATOGRAPHY CONSUMABLES





D2 LAMP

- OEM Equivalent Lamps
- Long Life
- 2000Hr Life warranty





Kindly contact us for Ordering P/N and Price!

Agilent

1100, 1200, 1260, 1290

Cyberlab Part Number	Description
D2-AGI-VWD	D2 Lamp for Agilent 1100/1200 VWD/UVD equivalent to G1314-60100/G1314-60101
D2-AGI-DAD	D2 Lamp for Agilent 1100/1200 DAD/PDA equivalent to P/N 5181-1530/2140-0813/2140-0820
D2-AGI-1260	D2 Lamp for Agilent 1260/1290 equivalent to 5190-0917

Waters[™]

2996, 2487 Alliance

Cyberlab Part Number	Description			
D2-WAT-2487	D2 Lamp for Waters Alliance 2487 UV/VWD equivalent to P/N WAS081142			
D2-WAT-2996	D2 Lamp for Waters Alliance 2996 PDA/DAD equivalent to P/N WAT052586/WAT057760			
D2-WAT-UPLC	D2 Lamp for Waters ACQUITY UPLC 2489/2998 equivalent to P/N 20100018			

🕀 SHIMADZU

SPD10A, AVP, AVVP, M10AVP, 2010

Cyberlab Part Number	Description
D2-SHI-2010	D2 Lamp for Shimadzu HPLC LC-2010 equivalent to P/N 228-37401-00
D2-SHI-SPD	D2 Lamp for Shimadzu SPD10A/10AVP equivalent to P/N 228-34016-02
D2-SHI-UVAA	D2 Lamp for Shimadzu AA/UV Spectrophotometers equivalent to P/N 062-65055-05

🕀 SHIMADZU

Prominence i

Cyberlab Part Number	Description
D2-SHI-NEXPROD	D2 Lamp for Shimadzu NEXERA (LC 2040/2040C) & Prominence i (LC2030/2030C) equivalent to P/N 228-55626-01

EPA / TOC VIAL KIT (CERTIFIED & PRE-ASSEMBLED)



- Suitable for water or soil samples.
- Ultra-low bleed septa are suitable for all environmental sample analysis.
- Ideal for EPA method 5035.
- 40 ml Clear glass screw Neck Vials

Part No.	Description	
KT-40-0402	40ml Clear Glass Screw Neck Vial with PP Screw Cap White Center Silicon natural / PTFE Beige BONDED Septa with Dust Protection Lid	
SCSPC-24-0842	PP White colour top screw cap with Silicon natural / PTFE Beige BONDED septa with Dust Protection Lid	



8MM SCREW TOP VIAL, CAP & SEPTA

CYBERLAB



Part No.	Description	
	8mm Screw Top Vials, Cap and Septa	
ST-08-4427	1.5 ml Clear Glass Screw Top Vials, w/o write on	
ST-08-4428	1.5 ml Clear Glass Screw Top Vials, with write on	
ST-08-4429	1.5 ml Amber Glass Screw Top Vials, w/o write on	
ST-08-4430	1.5 ml Amber Glass Screw Top Vials, with write on	
SCSP-08-4437	PP Black Colour Screw Cap, with Red PTFE/ White Silicon BONDED septa	

11MM SNAP TOP VIAL, CAP & SEPTA



Part No.	Description 11mm Crimp Top Vials, Cap and Septa	
ST-11-1232	1.5ml Clear Glass Snap Top Vials, w/o write-on	
ST-11-1232W	1.5ml Clear Glass Snap Top Vials, with write-on	
ST-11-1232A	1.5ml Amber Glass Snap Top Vials, w/o write-on	
ST-11-1232WA	1.5ml Amber Glass Snap Top Vials, with write-on	
SCSP-11-4500	11mm Clear Snap Cap with Red PTFE /White Silicon Septa	
SCSP-11-2074	11mm Clear Snap Cap with Red PTFE /White Silicon with Slit Septa	
SCSP-1B-4500	11mm Blue Snap Cap with Red PTFE /White Silicon Septa	
SCSP-1B-2074	11mm Blue Snap Cap with Red PTFE /White Silicon with Slit Septa	

11MM CRIMP TOP VIAL, CAP & SEPTA



Part No.	Description	
	11mm Crimp Top Vials, Cap and Septa	
CT-11-4491	1.5ml Clear Glass Crimp Top Vials, w/o write-on	
CT-11-4492	1.5ml Clear Glass Crimp Top Vials, with write-on	
CT-11-4493	1.5ml Amber Glass Crimp Top Vials, w/o write-on	
CT-11-4494	1.5ml Amber Glass Crimp Top Vials, with write-on	
CC-11-4500	11mm Silver Aluminium Crimp Caps with Centre hole, with Red PTFE /White Silicon Septa	
CC-11-4498	11mm Silver Aluminium Crimp Caps with Centre hole, with PTFE / Red Silicon Septa	

13MM SCREW TOP VIAL, CAP & SEPTA



Part No.	Description	
	13mm Screw Top Vials, Cap and Septa	
ST-13-0222	4ml Clear Glass Screw Top Vials, w/o write-on	
ST-13-1335	4ml Clear Glass Screw Top Vials, with write-on	
ST-13-0280	4ml Amber Glass Screw Top Vials, w/o write-on 4ml Amber Glass Screw Top Vials, with write-on	
ST-13-1336		
SCSP-13-4437	PP Black Colour Open Top Screw Cap, 8.5mm hole with Red PTFE / White Silicone BONDED septa	

1ML SHELL VIAL



Part No.	Description 1ml Shell Vial	
SV-01-0513	1ml Clear Glass Shell Vial with PE Plug Cap	
SV-PP-2194	1ml PP Shell Vial with PE Plug Cap	

Since 1967

9MM SCREW TOP VIAL, CAP, SEPTA & INSERT

CYBERLAB



	ST-09-2068	1.5 ml Clear Glass Screw Top Vials, with write on
	ST-09-2069	1.5 ml Amber Glass Screw Top Vials, w/o write on
Ĵ	ST-09-2070	1.5 ml Amber Glass Screw Top Vials, with write on
	ST-09-2068-33	1.5ml Clear Glass Screw Top Vials, with write-on 33 Expansion
	ST-09-0932	0.3 ml (300 μl) PP Micro Vial
	ST-PP-1205	1.5ml PP Screw Top Vials
		9mm Cap, Septa and Insert
	SCSPB-09-0730	PP Blue Colour Open Top Screw Cap, 6mm hole with Red PTFE/ White Silicon BONDED septa for 9-425 vials
	SCSPB-09-2074	PP Blue Colour Open Top Screw Cap, 6mm hole with Red PTFE / White Silicon SLIT BONDED septa for 9-425 vials
	SCSPB-09-1534	PP Blue Colour Open Top Screw Cap, 6mm hole with White PTFE / Beige Silicon SLIT BONDED septa for 9-425 vials
	SCSP-09-0730	PP Blue Colour Open Top Screw Cap, 6mm hole with Red PTFE / White silicon septa for 9-425 vials
	SCSP-09-2074	PP Blue Colour Open Top Screw Cap, 6mm hole with Red PTFE / White Silicon with SLIT septa for 9-425 vials
	SCSPB-09-4499	9mm, PP Blue Screw Cap ,6mm Center hole with Red silicon / clear PTFE BONDED Septa NEW
	SCSPB-09-4498	9mm, PP Blue Screw Cap, 6mm Center hole with Red silicon / clear PTFE SLIT BONDED Septa NEW
	MI-09-0865	(100µl) 0.1ml 31 x 6 mm with assembled plastic spring
	MI-09-0866	(200µl) 0.2ml 31 x 6 mm flat boom

9MM LC CLEAN BONDED



• Color free, Bonded ultra clean septa. • Suitable for critical samples.

• For all LC, HPLC and LCMS analysis.

Description 9mm Screw Top Vial

Part No.	Description	
SCSPB-09-2000	PP Blue Screw Cap with Clear LC Clean BONDED Septa	
SCSPB-09-2001	PP Grey Screw Cap with Clear LC Clean SLIT BONDED Septa.	

9MM ULTRA MASS SPEC CERTIFIED (UM4)

Insert



Extreme low-bleed.Conditioned to level 4 standard.		 Cleanest in the industry. Pharmaceutical grade.
Part No.	Description	
SCSPB-UM-0730	UM4, PP Blue Colour Open Top Screw Cap, 6mm hole with White PTFE /Purple Silicon BONDED septa UM4,PP Blue Colour Open Top Screw Cap, 6mm hole with White PTFE /Purple Silicon SLIT BONDED septa	
SCSPB-UM-2074		

9MM, Y PRE-SLIT SEPTA



• Prevent sample evaporation until the septum is pierced.

•

Part No.	Description
SCSP-9Y-2074	PP Blue Colour Open Top Screw Cap, 6mm hole with Red PTFE / White Silicon with Y Silicon SLIT, PTFE not slit septa

9MM MAGNETIC SCREW CAP

NEW

- Designed for instruments using a magnetic sample transport system.
- For liquid injection technique (Temp. upto 130°C).

 Truly Bonded S 	• Secure grip to autosampler magnets.
Part No.	Description
MCSPB-09-0730	Blue Polymag Cap with Bonded Red PTFE/White Silicon BONDED Septa
MCSPB-09-2074	Blue Polymag Cap with Bonded Red PTFE/White Silicon SLIT BONDED Septa

CYBERLAB

HEADSPACE VIAL, CAP & SEPTA `

	<		Part No.	Description
				20ml Headspace Vials
			PE-0C-0297	20ml Clear Glass Flat Bottom Vial for PE
			PE-0C-0297 (R)	20ml Clear Glass Round Bottom Vial for PE
			UN-RB-0873	20ml Clear Glass Round Bottom Vial
			UN-FB-0796	20ml Clear Glass Flat Bottom Vial
				10ml and 6 ml Headspace Vials
			UN-10-1405	10ml Clear Glass Round Bottom Vial
	9		UN-10-0795	10ml Clear Glass Flat Bottom Vial
			UN-06-0801	6ml Clear Glass Vial
			Part No.	Description
				Headspace Cap and Septa
(\bigcirc)	235		ALNS-STAG-0638	20mm, Silver Aluminium Crimp Cap with Silicon White / PTFE Beige (Tan) Septa
			ALNS-STAG-6579	20mm, Silver Aluminium Crimp Cap with Silicon White / PTFE Beige Dark (Tan) Septa
0			MG-08-0638	20mm Gold Magnetic Cap With Silicon White/PTFE Beige Septa
			BM-08-6579	20mm, Blue Bi-metallic Crimp Cap with Silicon White / PTFE Beige Dark (Tan) Septa
			BM-08-0638	20mm, Red Bi-metallic Cap with Silicon White / PTFE Beige Septa
			ALNS-BTGR-0057	20mm, Silver Aluminium Crimp Cap, Butyl / PTFE Septa
	\bigcirc	\odot	ALWS-BTGR-6239	20mm Aluminium Pressure Release Cap Butyl / PTFE Septa.

CRIMPER AND DECAPPER



Part No.	Description		
	Crimper and Decapper		
CRIMP-11	Manual Crimper 11mm		
DECAP-11	Manual Decapper 11mm		
CRIMP-20	Manual Crimper 20mm		
DECAP-20	Manual Decapper 20mm		

20ML HEADSPACE VIAL, CAP & SEPTA



Part No.	Description		
	20ml Head Space Screw Top Vial, Cap and Septa		
ST-20-1307	20 ml Clear Glass Round Bottom Screw Top Vial		
ST-20-1311	20 ml Amber Glass Round Bottom Screw Top Vial		
SCSP-20-1309	18 mm Silver Magnetic Screw Cap with Silicon White/ PTFE Blue Septa		
MPHS-18-6331	18 mm Magnetic PP Screw Cap with Blue PTFE / White Silicon SPME Septa		

PEEK TUBING





Trajan precision bore PEEK tubing ensures reproducibility in your chromatographic flow rates and results through smooth internal surface along with consistent and tight toleranced IDs.

Features and benefits

- Excellent chemical resistance and inert to most commonly used solvents. Exceptions are very caustic reagents, strong acids and bases.
- Color coded to industry standards for easy identification of inner diameter.
- Leach free colorants.
- Smooth inner walls and precise IDs.
- Works well with either polymer fittings as well as stainless steel fittings.

Product specifications

- Operating temperature up to 100°C max continuous use.
- Operating pressure range up to 10,000 psi (690 bar), size dependent.
- Can be used across a broad pH range of 2 to 14.

Compatible	Cat No.	ID in mm	ID in Inch	OD in Inch	Colour
SHIMADZU	1302005001	0.13mm ID	0.005" ID	1/16"	0
Agilent	1302007002	0.17mm ID	0.007" ID	1/16"	\bigcirc
Waters™	1302010003	0.25mm ID	0.010" ID	1/16"	0
Preparative HPLC	302020004	0.50mm ID	0.020" ID	1/16"	0

MANUAL CRIMPER AND DECAPPER



Manual crimper and decapper for aluminum crimp caps.	F	\mathbf{S}
Manual crimper and decapper for aluminum crimp caps.		
Ergonomically designed manual crimping tools		
transform the standards of vial crimping and decapping		

transform the standards of vial crimping and decapping.

Crimper			
Part No.	Description		
311990	11 mm Manual Crimper		
320990	20 mm Manual Crimper		
Decapper			
Decapper			
Part No.	Description		
	Description 11 mm Manual Decapper		

ELECTRONIC BATTERY CRIMPER AND DECAPPER



Electronic battery crimper and decapper for aluminium crimp caps*. Reduce strain from repetit e manual crimping. Crimp with the push of a buton!

*Not suitable for all-steel or magnetic ring crimp caps; The High Power Unit is required for this application.

Crimper				
Part No.	Description			
6A11CO	11 mm Electronic Crimper			
6A20CO	20 mm Electronic Crimper			
Decapper				
Part No.	Description			
6A11DO	11 mm Electronic Decapper			
6A20DO	20 mm Electronic Decapper			

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ers

NEW

Since 1967



BTO premium high-temp GC septa

Maximum operating temperature 400 °C (330-350 °C for 17mm size). BTO is Bleed and Temperature Optimized for the most demanding GC and GC/MS applications. Septa BTO is formulated to extend low-bleed and outstanding mechanical properties or premium GC septa to the highest-temperature applications. Packaged in Glass Jars.

Part No.	DIA	Application	Туре	Description
041896	9	BTO - Premium	High Temp & Center Guide	9 mm OD BTO premium high-temp center guide GC septa PK25
298705	9.5	BTO - Premium	High Temp	9.5 mm OD BTO premium high-temp GC septa PK50
041897	9.5	BTO - Premium	High Temp	9.5 mm OD BTO premium high-temp GC septa PK25
041898	11	BTO - Premium	High Temp & Center Guide	11 mm OD BTO premium high-temp center guide GC septa PK25
298718	11	BTO - Premium	High Temp & Center Guide	11 mm OD BTO premium high-temp center guide GC septa PK100
041899	11.5	BTO - Premium	High Temp & Center Guide	11.5 mm OD BTO premium high-temp center guide GC septa PK25



AG3 low-bleed GC septa

The CRS Advanced Green 3 was specifically created to combine significantly longer injection life, low bleed and low injection port adhesion. The result is a green septum you can use for all your critical analyses. Maximum temperature 350 °C (except in the 17mm size – please see specification details). Packaged in Glass Jar: 2 in. H x 1-1/2 in. W x 1-1/2 in. D; Weight: 59.5 g

Part No.	DIA	Application	Туре	Description
041901	9.5	AG3	Low Bleed	9.5 mm OD AG3 low-bleed GC septa PK25
246225	11	AG3	Low Bleed & Center Guide	11 mm OD AG3 low-bleed center guide GC septa PK50
041902	11	AG3	Low Bleed & Center Guide	11 mm OD AG3 low-bleed center guide GC septa PK25
246424	Shimadzu	AG3	Low Bleed & Center Guide	Shimadzu Plug AG3 low-bleed center guide GC septa PK50



General purpose blue GC septa

Our Blue Septa is designed for non-demanding, routine applications. They are easy to penetrate. The septa can be used up to 275 $^\circ$ C and are suitable for 90% of all GC analyses.

Part No.	DIA	Application	Туре	Description
234115	11	General Purpose	Blue	11 mm OD General purpose blue GC septa PK100
234116	11	General Purpose	Blue	11 mm OD General purpose blue GC septa PK50
234216	11.5	General Purpose	Blue	11.5 mm OD General purpose blue GC septa PK50
234120	Shimadzu	General Purpose	Blue	Shimadzu Plug General purpose blue GC septa PK100
234121	Shimadzu	General Purpose	Blue	Shimadzu Plug General purpose blue GC septa PK50



Marathon long-life GC septa

Long injection life, pre-pierced for minimal coring. Maximum temperature 350 °C. This septum typically achieves 400 injections without failure, when used with a rounded-tip (Agilent-style) needle and autosampler or needle guide. It is ideal for standard manual-injection GC and GC/MS. Center guide design requires less force for initial penetration, for a smoother feel. Packaged in Glass Jar: 2 in. H x 1-1/2 in. W x 1-1/2 in. D; Weight: 55.0 g

Part No.	DIA	Application	Туре	Description
041915	11	Marathon	Long-life Center Guide	11 mm OD Marathon long-life center guide GC septa PK25
239297	11	Marathon	Long-life Center Guide	11 mm OD Marathon long-life center guide GC septa PK50

VESPEL GRAPHITE FERRULES



Part No.	Description	
215104	1/16" GC ferrule 0.4 mm ID (long) 85% Vespel / 15% graphite PK10	
215164	1/16" GC ferrule 0.4 mm ID Agilent style 85% Vespel / 15% graphite PK10	
215105	1/16" GC ferrule 0.5 mm ID (long) 85% Vespel / 15% graphite PK10	
215165	1/16" GC ferrule 0.5 mm ID Agilent style 85% Vespel / 15% graphite PK10	
215108	1/16" GC ferrule 0.8 mm ID (long) 85% Vespel / 15% graphite PK10	
215168	1/16" GC ferrule 0.8 mm ID Agilent style 85% Vespel / 15% graphite PK10	

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FERRULE & INLET LINERS









Connectors, Ferrules & Inlet Liners for Agilent ThermoFisher

Part No.	Instrument	Col	umn ID	Ferrule	ID	Pack size		
100% graphite ferrules								
072635	Injectors & detectors at atmospheric pressure	0.1 - 0.32 m	ım	0.5 mn	n 🛛	10 10		
072636	e.g. FID(not for GC-MS)	0.45 - 0.53 ı	mm	0.8 mn	n 🛛			
Description a	nd geometry	OD (mm)	ID (mm)	Length (mm)	Pack Size	Part No.		
For Agilent 5890,6850,6890,7890 and 4890 I For Thermo Scientific TRACE 1300GC								
Calit / Calitles		6.3	4	78.5	5	092002		

Split / Splitless FocusLiner . .

O-Rings an	d Sealing R	ings

Part No.	Description	Usage	Pack Size
0726532	Viton O-Ring	Temperature up to 300°C. Suitable for liners with OD of 0.63 mm	10

Connectors & Ferrules for PerkinElmer Instruments

FERMILING								
Part No. Instrument		Column ID Size of nut		Ferrule ID	Pack size			
100% graphite ferrules								
072627	Injectors & detectors at atmospheric pressure	0.1 - 0.32 mm	1/16"	0.5 mm	10			
072626	e.g. FID(not for GC-MS)	0.45 - 0.53 mm	1/16"	0.8 mm	10			

Connectors, Ferrules & Inlet Liners for 🕀 SHIMADZU

Part No.	Column ID	Description	Pack size					
GC17A, GC2010 and GC2014 detector/ injectors (not for MS interface or QP2010 injector)								
0726080	0.10 - 0.25 mm ID columns	100% graphite	10					
0726082	0.45 - 0.53 mm ID columns	100% graphite	10					

Description and geometry			OD (mm)	ID (mm)	Length (mm)	Pack Size	Part No.		
For PerkinElmer AutoSystem and Clarus 500, 600									
Split / Splitless FocusLiner			5	3.4	95	5	092062		
Split/ Splitless with middle gooseneck			5	3.4	95	5	092077		
	ess with middle goo	oseneck	5	3.4	95	5	092085		
O-Rings and Sealing Rings									
Part No.	Description	Usage					Pack Size		
0726533	Viton O-Ring	Temperature up to 35	Temperature up to 350°C. For 2010 & 2014 (SPL-2010 injector & SPL-2014 injector) 10						

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GENERAL PURPOSE MANUAL SYRINGES

5 - 10 µL Metal Plunger



TRAJAN Brand

Standard Plunger Protection Syringes

HAMILI	ON		🗧 ļauka (astra jauka (astra)))))))))))))))				NEW		
Syringe Part No.	Syringe Volume	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code		
Fixed Needle									
001000	5 μL	50	26	0.47	0.11	Bevel	5F		
002000	10 µL	50	26	0.47	0.11	Bevel	10F		
002030 (pack of 6)	10 µL	50	26	0.47	0.11	Bevel	10F		
Removable Needle									
002050	10 µL	50	26	0.47	0.11	Bevel	10R		

Guided Plunger

Fixed Needle									
001400	5 μL	50	26	0.47	-	Bevel	5F-GP		
Removable Needle									
001450	5 μL	50	26	0.47	-	Bevel	5R-GP		

1 μL Volume



Syringe Part No.	Syringe Volume	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	
8.0 mm Outer Diameter (OD) Barrel								
000500	1 μL	50	23	0.63	0.155	Cone	1BR-5	
000505	1 μL	70	23	0.63	0.155	Cone	1BR-7	
000570	1 μL	70	26	0.47	0.155	Cone	1BR-7/0.47	

25 µL - 100 µL Metal Plunger

HAMILTON



Syringe Part No.	Syringe Volume	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code		
Fixed Needle	2								
003000	25 μL	50	25	0.5	0.2	Bevel	25F		
004000	50 μL	50	25	0.5	0.2	Bevel	50F		
005000	100 µL	50	25	0.5	0.2	Bevel	100F		

10 μL PTFE Tipped Plunger

Syringe Part No.	Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code
Fixed Needle								
002200	10 µL	\checkmark	50	26	0.47	0.11	Bevel	10F-GT

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1 mL PTFE Tipped Plunger

HAMILTON

Also Suitable for Syringe Pumps and Dispensers



	The second									
Syringe Part No.	Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code		
Fixed Needle										
008102	1 mL	\checkmark	50	22	0.72	0.37	Bevel	10F-GT		
Removable N	Removable Needle									
008100*	1 mL	\checkmark	50	23	0.63	0.32	Bevel	1MR-GT		
Fixed Luer Lock										
008025	1 mL	\checkmark	-	-	-	-	Luer Lock	1MDF-LL-GT		

* No thread in Plunger stem of syringe. Part numbers 008100

GC AUTOSAMPLER SYRINGES

A	gilent Tech	nologies		4	ակաթվակակ			
Syringe Part No.	Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code
HP7673, 7	7683, 7693A ar	nd 6850ALS Fixe	d Needle					
002821	10 µL	\checkmark	42	23-26	0.63/0.47	0.11	Cone	10F-AG-0.63/0.47
002826	10 µL	\checkmark	42	23-26	0.63/0.47	0.11	Cone	10F-AG-GT-0.63/0.47





Syringe Part No.	Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	
CTC PAL	CTC PAL Headspace								
008631	2.5 mL	-	56	23	0.63	-	Side Hole	2.5MF-CTC-EGT-HS- 5.6/0.63H	

🕀 SHIMADZU

Syringe Part No. AOC 14, 17,	Syringe Volume 20 and 20i F	PTFE Tipped Plunger ixed Needle	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	
001988	5 μL	-	42	23	0.63	0.11	Cone	5F-S-0.63	
AOC 14, 17	AOC 14, 17, 20 and 20i Removable Needle								
002898	10 μL	-	42	23	0.63	0.11	Cone	10R-S-0.63	

GC Manual Syringe

	∾ ∴́∟те	≥x SSI₊	VICI		6 in	ափոսեկնու	-	- -
Syringe Part No.	Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code
Fixed Need	lle							
003300	25 μL	-	51	22	0.028"	0.37	LC	25F-LC
004300	50 μL	-	51	22	0.028"	0.37	LC	50F-LC
005300	100 µL	-	51	22	0.028"	0.37	LC	100F-LC

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AmketteAnalyti





BP-1: 100% Dimethyl Polysiloxane

SGE CAPILLARY COLUMNS

Suitable Replacement for : DB-1, HP-1, Ultra-1, SPB-1, CP-Sil 5CB, Rtx[®]-1, ZB-1, CP-Sil 5CB MS, VF-1MS, Petrocol DH DB-Petro, HP-1MS, SPB-1 Sulfur, VB-1

Part No.	Length Meters	I.D. (mm)	Film Thickness μm
054090	30	0.53	1.0

BP-5: 5% Phenyl / 95% Dimethyl Polysiloxane

Suitable Replacement for : DB-5, Rtx-5, HP-5, Ultra-2, PTE-5, SPB-5, MDN-5, CP-Sil 8CB, VB-5, ZB-5

Part No.	Length Meters	I.D. (mm)	Film Thickness μm
054177	30	0.32	0.25
054196	30	0.53	5.0

BP-10 (1701) : 14% Cyanopropylphenyl Polysiloxane

Suitable Replacement for : DB-1701, Rtx-1701, HP-1701, SPB-7, CP-Sil 19CB, 007-1701, PE-1701, SP-1701

Part No.	Length Meters	I.D. (mm)	Film Thickness μm
054268	25	0.32	0.5
054280	25	0.53	1.0

BP-624 : Cyanopropylphenyl Polysiloxane

Suitable Replacement for : DB-624, HP-VOC, Rtx Volatiles, Rtx 624, VOCOL, VB-624, ZB-624, OV-624, AT-624, HP-VOC, CP-Select624CB, 007-624

Part No.	Length Meters	I.D. (mm)	Film Thickness µm
054832	30	0.32	1.8
054836	30	0.53	3.0
054838	60	0.53	3.0

BP-20 (WAX) : Polyethylene Glycol

Suitable Replacement for : DB-Wax, HP-20M, Supelcowax 10, CP-Wax 52CB, Stabilwax, Carbowax, HP-Innowax, Rtx-WAX, RH-WAX, ZB-WAX, TG-WAX MS, VF-WAX MS, Elite-WAX

Part No.	Length Meters	I.D. (mm)	Film Thickness µm
054427	30	0.25	0.25
054433	30	0.32	0.25
054451	30	0.53	1.0
054431	50	0.32	0.25
054438	30	0.32	0.5

BPX-70: 70% Cyanopropyl Polysilphenylene-siloxane

Suitable Replacement for : DB-23, CP-Sil 88, VF-23ms, SP-2330, SP-2380, Rtx®-2330, ZB-FAME

Part No.	Length Meters	I.D. (mm)	Film Thickness μm	
054612	30	0.22	0.25	67
054622	30	0.25	0.25	196
054623	60	0.25	0.25	g
054624	120	0.25	0.25	Sin

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Leverage our expertise for conducting tests on your samples using our supported instruments. We also offer customized Method Development and Sample Analysis services, providing insightful analysis that ensures accurate, reliable, and reproducible results. Make well-informed decisions based on the data generated from your samples.



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Trust our calibration services to guarantee precise and dependable measurements. We adhere to industry standards, ensuring that your instruments maintain their precision and performance.



Warranty and Out-of-Warranty Repairs:

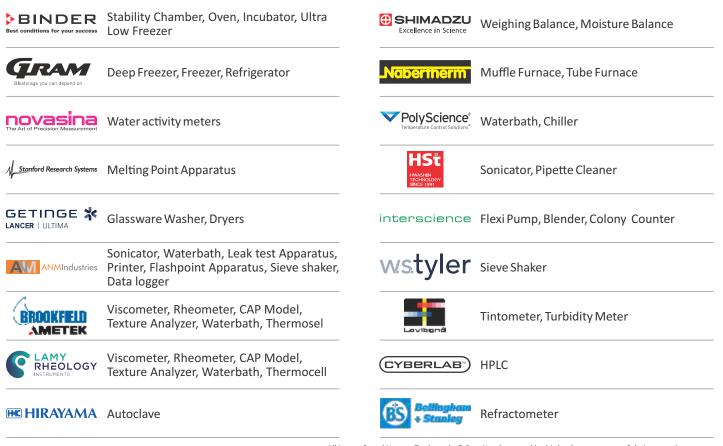
Whether your instruments are within the warranty period or beyond, our skilled engineers promptly diagnose and resolve any issues. We aim to minimize disruptions and extend the lifespan of your instruments, safeguarding your investment.

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we take pride in delivering exceptional customer service. We strive to provide reliable technical assistance and tailored solutions to meet your specific needs. Trust us as your partner in maximizing the performance and value of your laboratory instruments. **Discover the Synergy difference today.**



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For more information • Email: info@anmalliance.com • Tel.: 91-22-6614 1500



