



# Medical Devices & Equipment



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# Platelet Agitator and Incubator

Models 301550, 301200, 301650, 301300, FS100



**Boekel Scientific** offers three sizes of Platelet Agitators and Platelet Incubators for use in hospital blood banks and blood centers. These medical devices are specifically designed to support the short-term storage needs of blood platelets for human therapeutic use, based on the AABB (Association for the Advancement of Blood and Biotherapies) recommendations. These recommendations include temperature and mixing requirements to ensure product quality. The small Platelet Agitator is designed with six removable shelves and the large Platelet Agitator has eight removable shelves. The incubator features a compressor-less design to decrease the risk of equipment failure and eliminate the use of refrigerant. The incubator also has a patented inventory management system to help manage platelet expiration, among other revolutionary features. The Floor Standing Platelet Incubator Agitator has 25 removable shelves and is designed to support the needs of the busiest hospital blood banks and collection centers.

## Features:

- Onboard inkless printer for documenting temperature control
- Multitude of system alarms to protect the quality of platelets
- Heating and cooling without refrigerant or a compressor
- Large 7" industrial touch screen with intuitive icons
- Two year warranty & extended warranty available
- Patented Inventory Management System
- Battery backup in the event of a power failure
- Downloadable event and temperature log
- LED incubator lighting
- Certified to 60601-1 UL and CSA Medical Equipment Standards

## Small Platelet Incubator Model 301550

Capacity	One 301200 Agitator
Default Temperature Setpoint	22°C
Dimensions (W x L x H)	21.25" x 19.75" x 26"
Electrical	115V, 60Hz, 500 W (UL/CSA/CE)

## Platelet Agitator Model 301200

Capacity	6-12 Apheresis Bags
Dimensions (W x L x H)	15.75" x 11.25" x 13.625"
Electrical	115 V, 60 Hz, 50 W (UL/CSA/CE)

## Large Platelet Incubator Model 301650

Capacity	One 301300 Agitator
Default Temperature Setpoint	22°C
Dimensions (W x L x H)	25.3" x 26.5" x 30.0"
Electrical	115 V, 60 Hz, 500 W (UL/CSA/CE)

## Platelet Agitator Model 301300

Capacity	8-16 Apheresis Bags
Dimensions (W x L x H)	18.5" x 16.5" x 17.5"
Electrical	115 V, 60 Hz, 50 W (UL/CSA/CE))

## Floor Standing Platelet Incubator Agitator

Capacity	100 Apheresis Bags
Dimensions (W x L x H)	40" x 28" x 70"
Default Temperature Setpoint	22°C
Electrical	115 V, 60 Hz, 500 W (UL/CSA/CE)



Small Platelet Incubator and Agitator with Patented Inventory Management System 301550 & 301200



Large Platelet Incubator and Agitator with Patented Inventory Management System 301650 & 301300



Platelet Incubator Agitator FS100 with Patented Inventory Management System



# Plasma Thawer

Models 301000

**The Boekel Scientific Plasma Thawer** is designed for use in blood banks and laboratories for the thawing of up to four units of Fresh Frozen Plasma (FFP), Cryoprecipitated AHF, or Plasma Frozen Within 24 Hours After Phlebotomy (PF24) for future infusion into a patient. It offers both controlled temperature and agitation to thaw various volumes of plasma via two independently controlled baskets that accommodate up to two plasma bags per basket. The microprocessor-controlled system offers rapid temperature recovery and optimal temperature stability to reduce the time required to thaw multiple bags. The easy-to-program user interface allows multiple time options for thawing various sized bags. Upon completion of a timed cycle the baskets will automatically raise from the bath. Advanced safety features notify the user of an unsafe condition and raise the baskets from the bath upon alarm activation.

## Plasma Thawer Model 301000

Temperature Accuracy	+/- 0.3°C
Chamber Volume	17.98 L (4.75 gal)
Dimensions (W x L x H)	15.5" x 11" x 7.5"
Electrical	120 V, 50/60 Hz, 7 A, 900 W (UL/CSA/CE)

## Accessories and Part Numbers

- Overwrap Protection - Disposable overwrap protection provide security and protection from contamination - C1905712
- Chamber cover - D1905565
- Antimicrobial Bath cleaner - B1906001

## Features:

- Microprocessor based temperature controller with audible and visual high temperature alarm
- Two Basket design to accommodate up to 4 bags of plasma
- Baskets designed to keep plasma bags submerged during the thawing cycle
- Independently controlled basket assemblies agitate plasma units in 36.0° C water bath to efficiently and safely thaw plasma
- Cycles can be interrupted to check units or add additional bags
- Cycle times settable from 0-60 minutes or Hold which enables the end user to control the thawing time
- Polished stainless steel tank and baskets
- Bacteria Resistant Powder Coated exterior
- Chamber volume and high capacity heater enhance heat transfer efficiencies for fast thawing times
- Convenient drain port with quick-connect attachment allows for easy draining and cleaning of the bath
- Large chamber opening for easy cleaning
- Two Year Manufacturers Warranty
- Certified to 60601-1 UL and CSA Medical Equipment Standards
- FDA Cleared Device



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# Touch Screen Blood Collection Mixer

Model 302000

## Boekel Scientific's Touch Screen Blood Collection Mixer

was designed in conjunction with stationary and mobile blood collection experts. The unit incorporates the functionality needed for the busiest donor stations with new-to-the-industry features to improve efficiency and operation ease. The unit has an easily viewable, bright color touch screen that displays the collection data in real time. The most important collection details such as current volume, target volume, percent full, elapsed collection time and estimated time remaining are displayed during operation. The unit also has a large active pictorial that visually represents the blood collection bag, so the phlebotomist can observe the progress from a distance while tending to other donors. The blood collection mixer also has a highly accurate scale, removable long-life battery pack, USB and Ethernet data ports. The system has an integrated handle, removable magnetically attached mixing tray, and a lightweight robust design for easy relocation at mobile donor centers. The system alarms include low flow warning, end of cycle and low battery.

## Features:

- Displays Current Volume, Percentage Full, Elapsed Time, and Estimated Time Remaining
- Vivid Color Touch Screen That Can Easily Be Viewed From Across The Room
- Integrated Lifting Handle and Magnetically Attached Mixing Tray
- Long-Life Interchangeable Battery
- USB and Ethernet Data Ports
- UL, CE, and CSA | Medical Device
- Made in the U.S.A
- Two-year Warranty



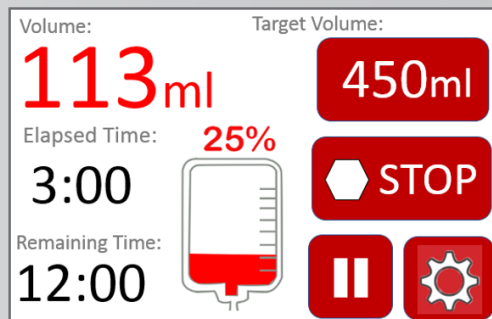
## Touch Screen Blood Collection Mixer Model 302000

Bag Capacity Settings	Default Volume Setting: 450ml
Adjustable Preset Volumes	400ml, 450ml, 500ml, 550ml
Tray Type	Easy On/Off magnetically attached with multiple tubing guides
Scale Performance	High Accuracy Load Cell +/- 1.0 gram with User Friendly Calibration
Mixing Action	3 cycles of +/- 12 degree rocking   Off for 2 second   Repeat
Alarms	Low Flow Rate, Scale Alarm, Motor Alarm, End of Cycle, Battery Alarm
Dimensions (W x L x H)	11" x 16" x 7"
Power	18V, 1.67A via 100-240V, 50/60Hz 0.8A AC Power Supply (UL/CSA/CE)

## Accessories and Part Numbers

Blood Collection Mixer  
Transport Case  
Calibration Kit

302000  
302001  
302CAL



User Interface Image

## Blood Tube Rockers

Models 282000, 280150, 260450

**Boekel Scientific has a long history** of manufacturing devices for shaking, rocking, and rotating samples. The Boekel Blood Tube rockers are designed for continuous use and are available in two sizes. Variable speed models allow for the adjustment of the rocking speed. All units are supplied with a removable rubber mat to ensure samples stay in place while rocking.

### Features:

- Provides gentle rocking action for mixing of specimens
- Low profile and small footprint minimizes bench space
- Fixed tilt angle - 35°
- Supplied with non-slip autoclavable tube pad (silicon rubber)
- Power pack is UL, CSA, and CE approved

### Tube Rocker XL Variable Speed Model 282000

Speed	5 - 25 rpm
Tilt Angle	35° angle fixed
Tube Capacity	Up to 19 tubes maximum
	120 mm long
Load Capacity	2.8 lbs. / 1.3 kgs.
Dimensions (W x L x H)	16" x 4.7" x 5"
Power	12 VDC, 0.5 A via
	100/240 Volt AC adapter
Shipping Weight	8 lbs. / 3.6 kgs.



282000

### Tube Rocker Mini Variable Speed Model 280150

Speed	5 - 25 rpm
Tilt Angle	35° angle fixed
Tube Capacity	Up to 8 tubes maximum
	120 mm long
Load Capacity	1.8 lbs. / 0.8 kgs.
Dimensions (W x L x H)	8.6" x 4.7" x 5"
Power	12 VDC, 0.5 A via
	100-240 Volt AC adapter
Shipping Weight	5 lbs. / 2.26 kgs.



280150

### Tube Rocker Mini Fixed Speed Model 260450

Speed	18 rpm
Tilt Angle	35° angle fixed
Tube Capacity	Up to 8 tubes maximum
	120 mm long
Load Capacity	1.8 lbs. / 0.8 kgs.
Dimensions (W x L x H)	8.6" x 4.7" x 5"
Power	12 VDC, 0.5 A via
	100-240 Volt AC adapter
Shipping Weight	5 lbs. / 2.26 kgs.



260450



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# RapidFISH Slide Hybridizer

Models 240200, 240200-2



The RapidFISH was designed to simplify Fluorescent In-Situ Hybridization (FISH) procedures for FFPE (formalin fixed paraffin embedded tissue) samples, cell suspensions, and other tissue preparation procedures.

Temperature control and humidity are essential for FISH probes to bind to RNA and DNA. The RapidFISH has a self-clamping slide tray design that maintains the required humidity. Microscope slides in the RapidFISH do not require coverslips

to be glued because the removable tray of the slide incubator traps moisture in the system. Elimination of this step decreases processing time and ensures that the specimens stay hydrated during processing. The system has an easy to use control system for controlling temperature, time and controlled temperature steps. The device has a small footprint and maintains excellent temperature stability and uniformity because of its dual heater convection system. Please contact Boekel Scientific for more information.

## Part Number Information

Item	Part Number
<b>RapidFISH Slide Hybridizer (115V)</b>	<b>240200</b>

Includes: Unit, Humidity Tray, Slide Holder, and Manual

<b>RapidFISH Slide Hybridizer (230V)</b>	<b>240200-2</b>
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Includes: Unit, Humidity Tray, Slide Holder, and Manual

## Features:

- Automatic clamping slide tray system
- Superior specimen humidification
- Excellent temperature performance
- Programmable heating modes
- Easy to use control system
- Two-year Warranty

**Boekel Scientific also offers rocking and rotating hybridization ovens as well as a UV Crosslinker to meet all hybridization needs. Please visit our website for additional information at [www.boekelsci.com](http://www.boekelsci.com).**

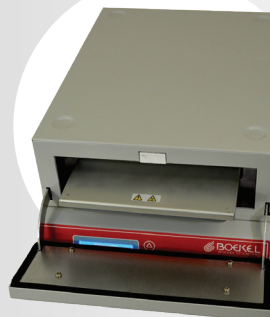




Rapid, High Performance, In Situ Hybridizing System for Microscope Slides

## RapidFISH Slide Hybridizer Model 240200

RapidFISH Slide Hybridizer	240200 (115V) 240200-2 (230V)
Dimensions (W x L x H)	11.00" x 15.96" x 8.09"
Slide Capacity	(20) 1" x 3" Microscope Slides
External Temperature	
Operating Range	10° C to 30° C
Internal Temperature	
Control Range	Ambient +5° C to 85° C
Operational Modes	Hold Temperature Programmable Temperature Profile Calibration
Heat Up Time	Ambient to 65° C in 20 minutes
Materials of Construction	Unit Exterior- Powder Coated Steel Unit Interior- Aluminum Slide Tray- Aluminum Slide Holder- Painted Steel
Stackable	Yes, Up to 3 Units
Display Type	Backlit 16 x 2 Line Blue LCD
Alarm	Yes
	Temperature Deviation
	Step Complete
	Program Complete
Weight	21.00 lbs.



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# Wax Dispensers

Models 145600, 145600-2, 1456XL, 1456XL-2



## Wax Dispenser Model 145600 and 145600-2

Dimensions (Diameter x Height)	8.50" x 16"
Temperature Range	40° C to 75° C +/- 2° C
Electrical 145600	115 V, 50/60 Hz, 250 W (UL/CSA)
145600-2	230 V, 50/60 Hz, 250 W (CE)

### Features:

- 5L (1.25 Gal) capacity
- Heated valve ensures a consistent flow of molten wax
- Stainless steel outer casing
- Aluminum inner reservoir provides excellent thermal transfer and temperature control
- Dispenser valve allows precise control of flowing wax and can be locked in the open position if desired
- Inner reservoir screen helps to prevent large particulate from clogging the dispenser valve
- Rapid warm-up with an advanced safety over-temperature cut-off
- 2 Year warranty



145600 Wax Dispenser

## Large Wax Dispenser Model 1456XL and 1456XL-2

Dimensions (W x L x H)	14" x 25.5" x 18.75"
Temperature Range	Ambient +5°C to 65°C
Default Temperature	55°C
Safety Cut off	88°C
Electrical 1456XL	115 V, 50/60 Hz, 750 W (UL/CSA)
1456XL-2	230 V, 50/60 Hz, 750 W (CE)

### Features:

- 28L (7.4 Gal) capacity (largest on the market)
- Adaptive digital control system that melts wax quickly and maintains the ideal temperature
- Hot Start feature will automatically start the warming based on set time to eliminate waiting
- Bright easy to use digital display
- Stainless steel lid and wax chamber to resist corrosion
- Heated and filtered wax spigot to keep the wax flowing quickly
- Two-year warranty



1456XL Large Wax Dispenser



# Tissue Flotation Baths



Models 145792, 14792-2, 145951, 145702, 145702-2, 145951, 145951-2

## Round Tissue Flotation Bath Model 14792 and 14792-2

Dimensions (Diameter x Height)	8.25" x 2"
Temperature Set Range	35°C to 65°C
Electrical	14792 115 VAC 50/60Hz 190W 14792-2 230 VAC 50/60Hz 190W



14792 Round Tissue Bath

## Tissue Flotation Bath Models 145702 and 145951

### Features:

- Eliminate wrinkles and distortion during preparation of paraffin embedded tissue sections
- L.E.D. illuminated black background with transparent Borosilicate dish; allows specimen to be easily seen
- Digital microprocessor control with advanced safety over temperature protection
- Deluxe model includes Slide Dryer Block to assist in drying of slides and Tissue Orienter Block to smooth wrinkled sections
- 2 Year Warranty

### Supplied With:

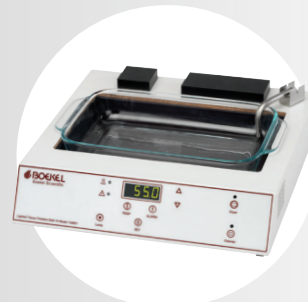
Removable borosilicate glass dish      Part Number: 904-0013



145702 Standard Lighted Tissue Flotation Bath

## Standard Lighted Tissue Flotation Bath Model 145702 and 145702-2

Dimensions (W x L x H)	14.25" x 14.25" x 4.5"
Temperature Set Range	Ambient +5° C to 65° C
Accuracy	+/-1° C
Electrical	145702 115 V, 50/60 Hz, 272 W (UL/CSA) 145702-2 230 V, 50/60 Hz, 272 W (CE)



145951 Deluxe Lighted Tissue Flotation Bath

## Deluxe Lighted Tissue Flotation Bath Model 145951 and 145951-2

Dimensions (W x L x H)	14.25" x 14.25" x 4.5"
Temperature Set Range	Ambient +5° C to 65° C
Accuracy	+/-1° C
Electrical	145951 115 V, 50/60 Hz, 272 W (UL/CSA) 145951-2 230 V, 50/60 Hz, 272 W (CE)

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# Slide and Cassette Storage

Models 141000, 141001, 141001WH, 143000

**Boekel Scientific manufactures** devices and storage solutions for the tissue embedding process. The equipment and supplies are designed to be ergonomic, robust, and user-friendly.

## **Slide Storage Cabinet Model 141000**

Overall Dimensions (W x L x H) 15.75" x 19" x 5"

## **Slide Storage Cabinet Base Model 141001**

Overall Dimensions (W x L x H) 15.75" x 18.75" x 2.75"

## **Slide Storage Cabinet Wheeled Base Model 141001WH**

Dimensions (W x L x H) 16" x 19.4" x 4.4"

### **Supplied With:**

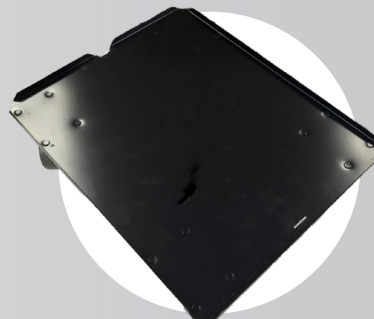
Sponge block spacers  
Identification labels

### **Accessories:**

Additional Cabinet Drawer	Part Number 141002
Cabinet Sponge Kit	Part Number 901-0007

### **Features:**

- Six cabinet drawers hold up to 5000 standard 1 inch x 3 inch microscope slides
- Cabinets can be interlocked up to 10 units high
- Plastic drawer dividers can be removed to store objects up to 5 cm (2 in) wide
- Drawers slide smoothly and easily
- Back of drawer acts as handle for transportation
- Durable cold rolled steel with baked on epoxy finish
- 2 Year Warranty





## Cassette Storage Cabinets

### Features:

- Stack up to three units high with the non-tip design
- Easy to remove crystal clear trays with metal outer housing
- Store up to 1,200 cassettes with foam organizers included
- Easy-slide drawers with customizable labels

### Cassette Storage Cabinet Model 143000

Overall Dimensions (W x L x H) 13.25" x 13.5" x 7.75"

Cassette Capacity Approximately

1,200 Cassettes per unit

Unit Stacking Capacity

3 Shelving Units High

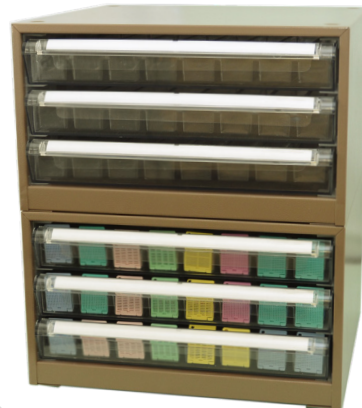
### Accessories

Additional Tray Inserts

Part Number: 143100



**Boekel Scientific also offers microscope slide mailers and a variety of microscope slide storage boxes to meet all slide storage and shipping needs. Please visit our website for additional information at [www.boekelsci.com](http://www.boekelsci.com).**



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# Programmable Heating Blocks

Models 115001, 115001-2, 115002, 115002-2, 115004, 115004-2

## Features:

- Readily Recognizable Icons to Start, Stop and Pause
- Temperature Control on a Bright Color Touch Screen
- Save up to 25 Programs for Rapid Sample Processing
- One, Two and Four Block Models to Fit Your Workflow
- Slim Design to Conserve Bench Space
- Optional External Temperature Probe
- Amazing Price Point
- 2 Year Warranty

## One Block Capacity Touch Screen Models 115001 and 115001-2

Temperature Range	Ambient + 5°C to 120°C with overtemp protection
Temperature Stability	+/- 0.2°C from 37°C to 100°C
Temperature Accuracy	+/- 0.25°C at 37°C
Operating Temperature	10°C to 50/60°C
Electrical	113004 115V 50/60 Hz (UL/CSA)
	113004-2 230V 50/60 Hz (CE)

## Two Block Capacity Touch Screen Models 115002 and 115002-2

Temperature Range	Ambient + 5°C to 120°C with overtemp protection
Temperature Stability	+/- 0.2°C from 37°C to 100°C
Temperature Accuracy	+/- 0.25°C at 37°C
Operating Temperature	10°C to 50/60°C
Electrical	115002 115V 50/60 Hz (UL/CSA)
	115002-2 230V 50/60 Hz (CE)

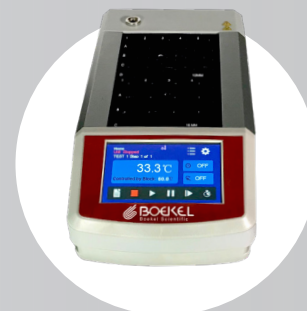
## Four Block Capacity Touch Screen Models 115004 and 115004-2

Temperature Range	Ambient + 5°C to 120°C with overtemp protection
Temperature Stability	+/- 0.2°C from 37°C to 100°C
Temperature Accuracy	+/- 0.25°C at 37°C
Operating Temperature	10°C to 50/60°C
Electrical	115004 115V 50/60 Hz (UL/CSA)
	115004-2 230V 50/60 Hz (CE)

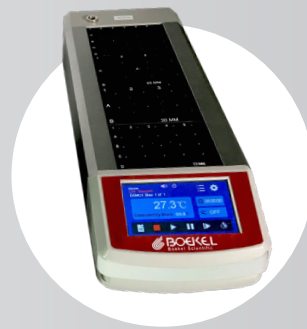
\* Blocks Sold Separately



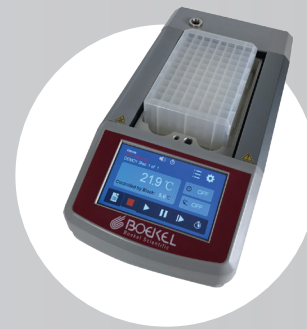
Touch Screen Dry Baths  
One Block Model 115001



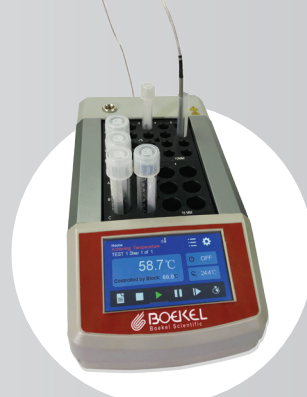
Touch Screen Dry Baths  
Two Block Model 115002



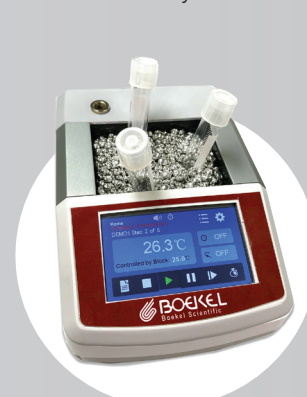
Touch Screen Dry Baths  
Four Block Model 115004



Model 115002  
with Assay Block



Two Block Unit with External  
Temperature Probe



One Block Unit with  
Thermal Beads



## Aluminum Heating Blocks

Models 115001, 115001-2, 115002, 115002-2, 115004, 115004-2



Part Number	Capacity	Tube Type
110006	35	6mm Tubes
110010	20	10mm Tubes
110013	20	13mm Tubes
110016	12	16mm Tubes
110020	6	29mm Tubes
110025	6	25mm Tubes
110035	3	25mm Tubes
	5	13mm Tubes
	6	6mm Tubes
110040	24	1.5mL Tubes
110045	24	0.5mL Tubes
110048	48	0.2mL Tubes
110051	1	96-Well Microplate
110096	6	96-Well 0.2mL Microplate
		0.2mL PCR Strips/Tubes
110096	24	1.5mL "Dolphin" Tubes
110101	12	5mL Centrifuge Tubes
110102	12	15mL Centrifuge Tubes
110103	5	50mL Centrifuge Tubes



## Contrast Media Warmer

Models 133001, 133001-2



**Incubator with a locking door** for warming contrast media. Ideal for hospital and lab settings where security is required. Includes two shelves and can accommodate up to four shelves.

Chamber Volume	0.8 cu. ft.
Chamber Dimensions (W x L x H)	11.5" x 12" x 10.5"
Temperature Range	Ambient +5°C to 60°C
Stability @ 37°C	±1.5°C
Uniformity @ 37°C	±1°C
Shelves Included	2
Max. No. Shelves*	4
Shelf Area	1.7 ft²
Dimensions (W x L x H)	13" x 14" x 16.25"
Shipping Weight	22 lb./10 kg

### Accessories:

Shelf Kit	Part Number: 1902053KIT
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# Tight Temperature Tolerance Incubator

Models 135000, 135000-2

**Specifically designed** for maximum temperature stability and uniformity the TTT incubator or "Tight Temperature Tolerance" incubator uses mechanical convection and an optimized configuration. Ideal for any small sample temperature sensitive process. The TTT incubator includes a removable shelf, a large viewing window and an easy to use digital control system with a configurable alarm and timer.

## Ordering Information

Part No.	Size	Electrical	Door Style
135000	0.34 cu. ft.	115 V, 50/60 Hz	See-Thru
135000-2	0.34 cu. ft.	230 V, 50/60 Hz	See-Thru

Chamber Volume	0.34 cu. ft.
Temperature Range	Ambient +8.0°C to 70°C
Stability @ 37°C	±0.2°C
Uniformity @ 37°C	±0.5°C
Shelves Included	1
Stackable	Yes
Chamber Dimensions (W x L x H)	12.0" x 6.0" x 8.0"
Outside Dimensions (W x L x H)	14.0" x 12.5" x 12.5"
Shipping Weight	24 lbs. / 10.9 kg
Regulatory Approval	UL, CSA, CE

## GEN2 BOD Refrigerated Incubator Models 165000, 165000-2

**Specifically designed** for Biochemical Oxygen Demand (BOD) testing, this refrigerated incubator can handle the most advanced microbiology work. Thermoelectric cooling and dual resistive convection heating allow this incubator to span a temperature range of about 4°C - 60°C. The thermoformed plastic interior can hold over 80 BOD bottles and allows for easy cleanup of spills. Includes humidity tray

Chamber Volume	4.0 cu ft
Stability @ 37°C	±0.1°C
Accuracy @ 37°C	±0.25°C
Outer Dimensions (W x L x H)	25.75" x 27.5" x 27.75"
Shipping Weight	150 lbs/68 kg
Electrical 165000	115V 50/60Hz 460W
165000-2	230V 50/60Hz 460W

## Accessory

165CAL Temperature Calibration Kit





## Standard Incubators

Models 132000, 132000-2, 133000, 133000-2

**These gravity convection models** are designed for use in labs that require a reliable and economical method of incubating cultures, test kits, eggs and many other biological samples. They are ideally suited for use in physicians' offices, clinical, industrial and school laboratories. The gravity convection offers good temperature uniformity and stability.

### Analog Incubator- 0.8 Cubic Foot Model 132000 and 132000-2

Shelves Included	2 Shelves
Maximum Capacity	4 Shelves
Temperature Range	Ambient +5°C to 60°C
Electrical 132000	115 V, 50/60 Hz (UL/CSA)
132000-2	230 V, 50/60 Hz (CE)

### Digital Display Incubator- 0.8 Cubic Foot Model 133000 and 133000-2

Shelves Included	2 Shelves
Maximum Capacity	4 Shelves
Temperature Range	Ambient +5°C to 60°C
Electrical 133000	115 V, 50/60 Hz (UL/CSA)
133000-2	230 V, 50/60 Hz (CE)

**Boekel Scientific offers a wide variety of digital forced air incubators. Please visit our website for additional information at [www.boekelsci.com](http://www.boekelsci.com).**



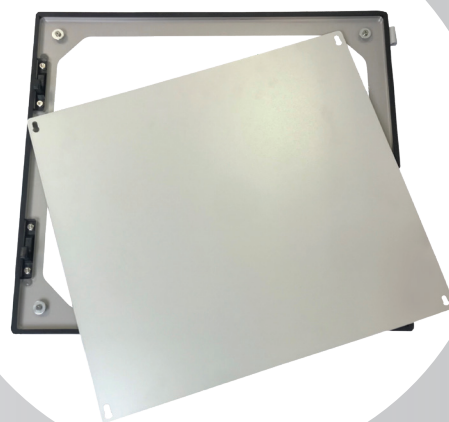
Boekel GEN2 CO2  
Incubator

# Digital Forced Air Incubators

Models 151050, 151050-2, 151140, 151140-2, 151250, 151250-2, 151500, 151500-2

**Introducing our new** line of forced air convection incubators, ideal for microbiological testing, wastewater & water quality testing, and general sample incubation needs. All units now come equipped with a digital control system with built-in timer and a door with a large viewing window. For light-sensitive incubations, easily omit ambient light with the included, removable, photoprotective door panel. With these new features, our incubators provide a stable and optimal environment for your samples while bringing customization and value to your laboratory!

Our forced air incubators are available in four sizes to suit your needs: 0.5 cu ft, 1.4 cu ft, 2.5 cu ft, and 5.0 cu ft. The 1.4 and 2.5 cu ft sizes come equipped with 1 internal auxiliary outlet, and the 5.0 cu ft size features 2 internal auxiliary outlets. This allows for flexibility and convenience when using additional equipment or accessories in your incubation process.





## Digital Forced Air Incubators (0.5 Cubic Foot) Model 151050 and 151050-2

Electrical Voltage	151050	115V
	151050-2	230V
Electrical Frequency		50/60Hz
Power Required		250W
Chamber Volume		0.5 cu ft
Temperature Control Range		(Ambient + 8°C) to 70°C
Temperature Stability		±0.2°C
Temperature Uniformity at 37°C		1.0°C
Temperature Display Resolution		0.1°C
Timer Resolution		1 sec
Number of Shelves		1
Max load per shelf		10 lbs
Net weight		27 lbs
Chamber Dimensions (W x D x H)		9½" x 9¾" x 9½"
External Dimensions (W x D x H)		11¾" x 15¼" x 16½"

## Digital Forced Air Incubators (2.5 Cubic Foot) Model 151250 and 151250-2

Electrical Voltage	151250	115V
	151250-2	230V
Electrical Frequency		50/60Hz
Power Required		550W
Chamber Volume		2.5 cu ft
Temperature Control Range		(Ambient + 8°C) to 70°C
Temperature Stability		±0.2°C
Temperature Uniformity at 37°C		1.0°C
Temperature Display Resolution		0.1°C
Timer Resolution		1 sec
Number of Shelves		3
Max load per shelf		10 lbs
Net weight		55 lbs
Chamber Dimensions (W x D x H)		17" x 17" x 15"
External Dimensions (W x D x H)		19½" x 22¾" x 21¾"

## Digital Forced Air Incubators (1.4 Cubic Foot) Model 151140 and 151140-2

Electrical Voltage	151140	115V
	151140-2	230V
Electrical Frequency		50/60Hz
Power Required		500W
Chamber Volume		1.4 cu ft
Temperature Control Range		(Ambient + 8°C) to 70°C
Temperature Stability		±0.2°C
Temperature Uniformity at 37°C		1.0°C
Temperature Display Resolution		0.1°C
Timer Resolution		1 sec
Number of Shelves		1
Max load per shelf		10 lbs
Net weight		40 lbs
Chamber Dimensions (W x D x H)		13½" x 13½" x 13½"
External Dimensions (W x D x H)		16" x 19" x 20½"

## Digital Forced Air Incubators (5.0 Cubic Foot) Model 151500 and 151500-2

Electrical Voltage	151500	115V
	151500-2	230V
Electrical Frequency		50/60Hz
Power Required		1050W
Chamber Volume		5.0 cu ft
Temperature Control Range		(Ambient + 8°C) to 70°C
Temperature Stability		±0.2°C
Temperature Uniformity at 37°C		1.0°C
Temperature Display Resolution		0.1°C
Timer Resolution		1 sec
Number of Shelves		3
Max load per shelf		10 lbs
Net weight		81 lbs
Chamber Dimensions (W x D x H)		17" x 17" x 30"
External Dimensions (W x D x H)		19½" x 22¾" x 37"

# Shaking Water Baths

Models 290400, 290400-2



**Boekel Scientific water baths** have advanced features and are manufactured in the United States. The shaking three sizes are available and a shaking variant is available for temperature controlled mixing applications.

## Model 290400 and 290400-2

Capacity	28 Liters
Temperature Range	Ambient +5° to 100°C or Boiling Mode
Electrical	290400 115 V, 50/60 Hz (UL/CSA)
	290400-2 230 V, 50/60 Hz (CE)

### Features:

- Switch from Orbital to Reciprocating motion by simply reversing the tray
- Timer up to 99 hours
- Adjustable speed from 20-200 RPM
- Available in 115 or 230 volt/50-60 Hz (CE)
- 2 Year Warranty

- \* Removable trays required for operation
- \* All trays sold separately



Flask/Beaker Tray  
Part Number 290410

Tube Tray  
Part Number 290420

# Trays

Models 290410, 290420

## Model 290410 Universal Flask Tray

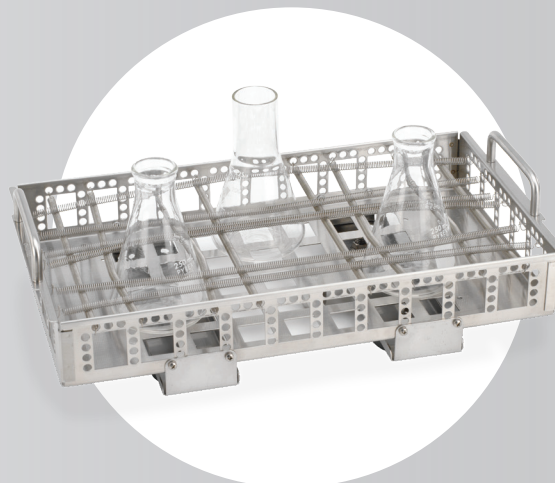
Holds any of the flasks as below.

26 - 25 mL	11 - 250 mL
26 - 50 mL	6 - 500 mL
15 - 100 mL	3 - 1L

## Model 290420 Tube Tray

Holds up to five test tube racks. Test tube racks available in different sizes

290421	48 x 10mm tubes
290422	44 x 13mm tubes
290423	24 x 16mm tubes
290424	21 x 19mm tubes
290425	12 x 25mm tubes
290426	10 x 30mm tubes





## General Purpose Water Baths



Models 290100, 290100-2, 290200, 290200-2, 290300, 290300-2

### Model 290100 and 290100-2

Electrical 290100 115 V, 50/60 Hz (UL/CSA)  
290100-2 230 V, 50/60 Hz (CE)

### Model 290200 and 290200-2

Electrical 290200 115 V, 50/60 Hz (UL/CSA)  
290200-2 230 V, 50/60 Hz (CE)

### Model 290300 and 290300-2

Electrical 290300 115 V, 50/60 Hz (UL/CSA)  
290300-2 230 V, 50/60 Hz (CE)

### Features:

- General purpose water baths offer excellent performance and are ideal for general lab applications.
- The special "boiling mode" is a convenient feature for melting agar and other applications requiring boiling temperature.
- Temperature Range of +5°C to 100°C\*\* or Boiling Mode
- 2 Year Warranty



Model 290100  
6L



Model 290200  
14L



Model 290300  
28L

## Stainless Steel Gabled Covers

Models 290120, 290220, 290320

Gabled Covers direct condensed water to edge and back into the tank.

\*\*NOTE: Stainless steel gabled covers are required for use when the water bath is placed in boiling mode.

### For Water Bath Model

290100  
290200  
290300 & 290400

### Lid Model No.

290120  
290220  
290320

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# Mini Tube Vortex Mixer

Model 270100

The **Boekel Scientific Mini Tube Vortex Mixer** is compact, simple lab vortex mixer with a low profile and small footprint. Ideal for mixing centrifuge tubes, culture tubes, blood tubes, and test tubes. The unit has a pressure sensitive cup for touch activated operation or the unit can run in continuous mode. The suction cup feet prevent the unit from moving during operation.

## Model 270100

Speed	300 to 6000 RPM / continuous or burst
Orbit	2mm
Tube Diameter (maximum)	20mm
Operating Temperature	+4°C to +40°C
Dimensions (W x L x H)	4.13" x 5.9" x 3.35"
Power	12 V dc, 0.5 A via 100-240 V AC Adapter
Shipping Weight	4 lbs. / 1.8 kgs.

## Features:

- Compact, with low profile and small footprint
- Pressure sensitive cup
- Continuous or touch operation
- Rubber suction pads prevent walking, absorb vibration
- Low voltage supply for safe cold room use
- Power pack is UL, CSA and CE approved
- Unit is CE marked



# Microplate Shakers

Model 270300, 270340

The **Boekel Scientific Microplate Shaker** is a reliable, programmable laboratory shaker for microplates. The unit provides regulated and timed shaking for two or four microplates. Ideal for any lab.

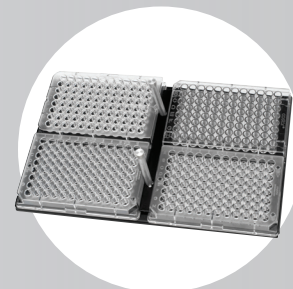
## Model 270300 (2 Plate Capacity)

## Model 270340 (4 Plate Capacity)

Speed	250 to 1000 RPM
Orbit	2mm
Timer (with auto shut off)	1 min. to 96 hours
Time Setting Resolution	10 sec.
Dimensions (W x L x H)	7" x 7.25" x 3.5"
Power	12 V dc, 0.5 A via 100-240 V AC Adapter
Shipping Weight	10 lbs. / 4.5 kgs.

## Features:

- Compact with low profile and small footprint
- Reliable, regulated shaking for two or four microplates
- Simple screw attachments allow quick and easy fitting of any standard depth 96- or 384-well plates, holding the plates securely in place
- LCD Display
- Power pack is UL, CSA and CE approved
- Unit is CE marked



## Accessories

Platform for 4 microplates      Part Number: 270390



# Jitterbug-2 & Jitterbug-4 Microplate Thermoshakers

Models 270400, 270440

The Boekel Scientific Jitterbug 2 and Jitterbug 4 are heated microplate shakers are ideal for immunoassays like ELISA, PCR and other research procedures requiring heating and mixing of microplates. Equipped with a heated lid to provide greater uniformity and prevent condensation. Independently control set temperature, mixing speed and mixing duration.

## Jitterbug-2 Model 270400 (2 Plate Capacity)

## Jitterbug-4 Model 270440 (4 Plate Capacity)

Speed	250 to 1000 RPM
Orbit	2mm
Stability	± 0.1°C
Uniformity	± 0.2°C
Timer (with auto shut off)	1 min. to 96 hours
Time Setting Resolution	1 min.
Temperature Range	Ambient +5°C to 60°C
270400 Dimensions (W x L x H)	10.5" x 10.6" x 6"
270440 Dimensions (W x L x H)	15.5" x 15.5" x 6"
Power	12 V dc, 0.5 A via 100-240 V AC Adapter
Shipping Weight	16 lbs. / 7.25 kgs.

### Features:

- Accommodates two or four standard microplates or strip trays
- Independently set temperature, shaking speed and mixing duration
- Chamber in a chamber design for excellent stability
- Smooth, quiet operation
- Temperature calibration
- Heated lid to provide greater uniformity
- Accommodates Std. 96, 384, and 536 Plates
- Power pack is UL, CSA and CE approved
- Unit is CE marked



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# Mini Tube Rotator

## Model 260750

**The Boekel Scientific Mini Tube Rotator** is ideal for mixing laboratory tubes. Molecular Biology, Histochemistry, and Clinical applications. Supplied with carousel for 36 x 1.5/2.0mL Tubes. Additional tube carousels available. Cold room and Incubator compatible.

### Model 260750

Speed	Variable 4-18 RPMs
Mixing Angle	Adjustable 0-90°
Load Capacity	1.75 lbs.
Carousel Capacity	(36) 1.5/2.0 ml tubes (10) 10/15 ml tubes (16) 5/7 ml tubes (6) 50 ml tubes
Operating Temperature	+4°C to +40°C
Dimensions (W x L x H)	9.0" x 5.0" x 6.0"
Power	12 V dc via 100/240 V AC Adapter
Shipping Weight	4.5 lbs. / 2.0 kgs.

### Features:

- A Variable Speed with LCD display
- Includes 260751 Carousel for 36 x 1.5/2.0ml tubes
- Provides complete 360° Rotation
- An adjustable 0-90° Mixing Angle
- Small footprint for your bench - we know you need all the space you can get!
- Interchangeable carousels for all common laboratory tubes
- Cold Room and Incubator compatible
- AC Adapter 100-240V with UL/CSA and CE markings

### Accessories

Carousel 260751	36 x 1.5/2.0 ml Tubes
Carousel 260752	10 x 10/15ml Tubes and 16 x 5/7ml Tubes



**Larger Model also available. Please visit our website for additional information at [www.boekelsci.com](http://www.boekelsci.com).**



# Mini Orbitron™ Rotator

Models 260100

**Small nutating lab mixer** that provides gentle continuous mixing of specimens in blood tubes, microcentrifuge tubes, glass vials, or plates. Supplied with a non-slip dimpled mat and a non-slip flat mat. Variable speed from 4-24 rotations per minute.

## Models 260100 (115 VAC)

Speed	24 RPM fixed
Tilt Angle	20° fixed
Load Capacity	0.8 kg (1.8 lbs)
Operating Temperature	+4°C to +40°C
Tray Size (W x L)	9.75" x 5.25"
Dimensions (W x L x H)	7.5" x 5.0" x 5.5"
Electrical	12V, 1.25A via 100-240 AC adapter
Shipping Weight	3 lbs. / 1.3 kgs.



### Features:

- Provides gentle, continuous mixing of specimens
- Extremely quiet
- Auto reverse
- Low profile and small footprint minimizes bench space
- Accommodates a variety of blood tubes, Centrifuge tubes, glass vials, or plates
- Supplied non-slip mats can be cleaned with soap and water and autoclaved too.

**Larger Model also available. Please visit our website for additional information at [www.boekelsci.com](http://www.boekelsci.com).**

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# Orbital Platform Shaker

## Model 270200

**Boekel Scientific Orbital Shakers** are advantageous because the platforms are interchangeable, the RPM are adjustable, they have adjustable timers, and they can be used in an incubator up to 45°C. Additionally, they are quiet with a smooth start and they are ESG-friendly, running on only 12V, 0.5A power. The flat mat platform is 220mm x 220mm, which can easily hold a multitude of plates, membranes and gels, containers, and (2) 10-spot RPR cards or (1) 30-spot RPR card.

### Platforms Sold Separately

#### Model 270200

Speed	50-300 RPM
Orbit	18mm
Timer	1m to 99h
Dimensions (W x L x H)	10.5" x 11" x 4"
Electrical	12V DC, 0.5A via 110-240 V AC Adapter
Shipping Weight	13 lbs/5.8 kg
Load Limit	5.5 lbs/2.5 kg

#### Platform Options

6 x 250 mL flasks holders/400 mL beakers	Part Number 270290
12 x 100mL flasks holders/150ml beakers	270291
Universal platform w/adjustable bars	270292
Flat platform w/rubber mat	270293

**Boekel Scientific also offers Thermal Mixers with both heat only models and heat/cool models. Please visit our website for additional information at [www.boekelsci.com](http://www.boekelsci.com).**



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