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PRODUCT CATALOGUE

WHILE USING ADVANCED TECHNOLOGY AND INNOVATION, MİKROTEST DEVELOPS PRODUCTS THAT PROVIDE REAL ADDED VALUE TO THE CUSTOMER. WE APPLY OUR EXPERTISE AND FEEL FOR THE REQUIREMENTS OF DYNAMIC, DAY-TO-DAY WORK IN RESEARCH FACILITIES TO SUPPORT THE WIDEST RANGE OF PROJECTS AND PROCESSES IN AN OPTIMUM WAY.

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CONTENTS

LAMINAR FLOW CABINET

The Class II (laminar flow) cabinet is designed to minimize the hazards inherent in working with agents assigned to biosafety levels 1, 2, 3 or 4.

Laminar Flow cabinet meet the essential requirements of EN 12469 and NSF/ANSI 49 standards for their design, construction and performance intended to protect personnel, product and the environment.

A Laminar flow cabinet is an enclosed workstation that is used to create a contamination-free work environment through filters to capture all the particles entering the cabinet.

Laminar flow cabinet is designed to protect the work from the environment. Air moves in two way in working cabinet, one part exhausted to room at front by reventing room air move into the working zone. The rest of the internal air isrecirculated from the back holes of the cabinet by increasing HEPA filter life.

Model	MLF-90	MLF-120	MLF-150	MLF-180
İnternal Dimensions (WxDxH) mm	931x698x651	1236x698x651	1536x698x651	1836x698x650
External Dimensions (WxDxH) mm	995x801x2155	1300x801x2155	1600x801x2155	1900x801x2155
Transport Stand Dimensions (WxDxH) mm	995x801x830	1300x801x830	1600x801x830	1900x801x830

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TECHNICAL SPECIFICATIONS

Average Inflow Velocity	≥ 0,51 m/s
Average Downflow Velocity	0,25 -0,40 m/s
Downflow Air Filter/Main Filter	H14 HEPA, 0.3 µm particulate 99.995% (EN 1822)
Exhaust Filter	Not using in Laminar Flow Cabinet
Front Filter	G4
Air cleanliness class	ISO Class 5 (ISO 14644-1)- Class 100(FED 209 E)
Bench/Working table (Standard)	316 Stainless Steel
Front Sash/Window Standart Opening	200mm ± 10 mm
Front Sash/Window Maximum Opening	530mm ± 10 mm
Noise Level (Normal Mode)	< 60 dB(A)
Noise Level (Economy Mode)	< 55 dB(A)
Ilumination	850 – 1150 Lux
Supply Voltage / Frequency	230 V / 50 Hz
Power Consumption /Current	1000 W / 16A
Fan	ebmpapst-Greentech EC

BIOSAFETY CABINET CLASS II A 2

The Class II (laminar flow) biosafety cabinet is designed to minimize the hazards inherent in working with agents assigned to biosafety levels 1, 2, 3 or 4.

Biosafety cabinets (BSCs) meet the essential requirements of EN 12469 and NSF/ANSI 49 standards for their design, construction and performance intended to protect personnel, product and the environment.

Class II (Types A1, A2., B1 and B2) biosafety cabinets are partial barrier systems that rely on air movement to provide personnel, environmental and product protection. Personnel and product protection is provided by the combination of inflow and downstream airflow captured by the cab front grille.

Model	MGK-90	MGK-120	MGK-150	MGK-180
İnternal Dimensions (WxDxH) mm	885x650x680	1190x650x680	1490x650x680	1790x650x680
External Dimensions (WxDxH) mm	1045x800x2300	1350x800x2300	1650x870x2300	1960x870x2300
Transport Stand Dimensions (WxDxH) mm	1045x800x890	1350x800x890	1650x870x890	1960x870x890

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TECHNICAL SPECIFICATIONS

Average Inflow Velocity	≥ 0,51 m/s
Average Downflow Velocity	0,25 -0,40 m/s
Downflow Air Filter/Main Filter	H14 HEPA, 0.3 µm particulate 99.995% (EN 1822)
Exhaust Filter	H14 HEPA, 0.3 µm particulate 99.995% (EN 1822)
Air cleanliness class	ISO Class 5 (ISO 14644-1)- Class 100(FED 209 E)
Bench/Working table (Standard)	316 or 304 Stainless Steel
Front Sash/Window Standart Opening	200mm ± 10 mm
Front Sash/Window Maximum Opening	530mm ± 10 mm
Noise Level (Normal Mode)	< 60 dB(A)
Noise Level (Economy Mode)	< 55 dB(A)
Ilumination	850 – 1150 Lux
Supply Voltage / Frequency	230 V / 50 Hz
Power Consumption /Current	1000 W / 16A
Fan	ebmpapst-Greentech EC

BIOSAFETY CABINET CLASS II B 2

The Class II (laminar flow) biosafety cabinet is designed to minimize the hazards inherent in working with agents assigned to biosafety levels 1, 2, 3 or 4.

Biosafety cabinets (BSCs) meet the essential requirements of EN 12469 and NSF/ANSI 49 standards for their design, construction and performance intended to protect personnel, product and the environment.

Class II (Types A1, A2., B1 and B2) biosafety cabinets are partial barrier systems that rely on air movement to provide personnel, environmental and product protection. Personnel and product protection is provided by the combination of inflow and downstream airflow captured by the cab front grille.

Class II type B2 Biological Safety Cabinets works under principles with full exhaust of Pre/ HEPA filtered fresh air to outer athmosphere without recirculation. Exhausting through HEPA filter protects also environment.

Model	MGK-90	MGK-120	MGK-150	MGK-180
İnternal Dimensions (WxDxH) mm	885x650x682	1190x650x682	1490x650x680	1790x652x680
External Dimensions (WxDxH) mm	1045x870x2470	1350x870x2470	1650x870x2470	1950x870x2470
Transport Stand Dimensions (WxDxH) mm	1045x870x890	1350x870x890	1650x870x890	1950x870x890

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TECHNICAL SPECIFICATIONS

Average Inflow Velocity	≥ 0,51 m/s
Average Downflow Velocity	0,25 -0,40 m/s
Downflow Air Filter/Main Filter	H14 HEPA, 0.3 µm particulate 99.995% (EN 1822)
Exhaust Filter	H14 HEPA, 0.3 µm particulate 99.995% (EN 1822)
Front Filter	G4
Air cleanliness class	ISO Class 5 (ISO 14644-1)- Class 100(FED 209 E)
Bench/Working table (Standard)	316 or 304 Stainless Steel
Front Sash/Window Standart Opening	200mm ± 10 mm
Front Sash/Window Maximum Opening	530mm ± 10 mm
Noise Level (Normal Mode)	< 60 dB(A)
Noise Level (Economy Mode)	< 55 dB(A)
llumination	850 – 1150 Lux
Supply Voltage / Frequency	230 V / 50 Hz
Power Consumption /Current	1000 W / 16A
Fan	ebmpapst-Greentech EC

BIOSAFETY CABINET CLASS III

The Class III Biosafety Cabinet is designed to work best with risk group 4 microorganisms. The gastight enclosure ensures the safety of the environment and the worker from the specimen that is being studied.

The Class 3 Biological Safety Cabinets are also called Gloveboxes, due to work being conducted using arm-length gloves. These gloves are fixed to the cabinet glass which completely isolates the environment from the ongoing process inside the chamber.

Having air filters that ensures maximum safety for the user and the environment. The materials that need to be brought into the chamber are transferred through a pass box. The pass box is a feature of the cabinets which ensures the safe movement of the materials from and into the working compartment.

Model	MGK-90	MGK-120	MGK-150
İnternal Dimensions (WxDxH) mm	85x66x79	115x66x79	145x66x79
External Dimensions (WxDxH) mm	135x90x264	135.5x90x264	165x90x264
Pass Box Dimensions (WxDxH) mm	55x66x85	55x66x85	55x66x85

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TECHNICAL SPECIFICATIONS

Downflow Air Velocity	0,40 m/s ± 20%
Cabinet İnternal Pozitive Pressure (Pa)	≥ 10-15 Pa
Cabinet İnternal Negative Pressure(Pa) -Optional	≥ 250 Pa
Main Filter	H14 HEPA, 0.3 µm particulate 99.995% (EN 1822)
Exhaust Filter	H14 HEPA, 0.3 µm particulate 99.995% (EN 1822)
Front Filter	G4
Air cleanliness class	ISO Class 5 (ISO 14644-1)
Bench/Working table (Standard)	304 Stainless Steel
Front Sash/Window	8 mm tempered glass
Noise Level (Normal Mode)	< 60 dB(A)
Long-sleeved gloves	2
Display	LCD Screen Audio and visual alarm, filter replacement
Ilumination	850 – 1250 Lux
Supply Voltage / Frequency	230 V / 50 Hz
Power Consumption /Current	1000 W / 16A
Fan	ebmpapst-Greentech EC

PCR CABINET

A PCR cabinet is a dedicated space within laboratory to conduct polymerase chain reactions (PCR). PCR cabinet provide a workspace enclosed on three sides to provide a contaminant-free environment that helps prevent sample contamination while conducting PCR amplification of DNA or RNA.

PCR cabinet is designed to control air circulation to reduce the chances of cross- contamination that can cause inaccurate results.

MAIN FEATURES

- Vertical laminar airflow with HEPA filtration technology
- Ergonomic design
- 304 Stainless steel working area
- Front and side panel are tempered glass
- Energy-saving LED lighting
- UV lights for sterilization
- A sterile work area for aseptic techniques
- A high-efficiency fan powered by an electronically commutated (EC) motor

Model	MPS-90	MPS-120
İnternal Dimensions (WxDxH) mm	920x550x570	1220x550x570
External Dimensions (WxDxH) mm	1000x650x1200	1300x650x1200
Packing Dimensions (WxDxH) mm	1050x750x1250	1460x815x1400

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1. The cabinet has 1 UV lamp 15 W, 253.7 nm wavelength. UV lamp life should not be less than 5000 hours of continuous operation. UV lamp have a built-in timer. The timer should be programmable between 0 and 24 hours, and it should be possible to operate continiously if desired.
2. The cabinet has 1 Hepa filter H14 HEPA, 0.3 µm particulate 99.995% (EN 1822) and 1 Front filter G4.
3. The cabinet front glass is 6 mm tempered glass. The front glass is motorized and operate automatically up and down.
4. The UV lamp need to be used for surface disinfection for 15 - 30 minutes before work.
5. In addition to UV lamp, the device must have a fluorescent lamp with a power of 15 W to illuminate the environment.
6. The cabinet timer is microprocessor controlled and have a LCD touch-sensitive color display.
7. The cabinet operates with 220 V 50 HZ city mains power.

OPTIONAL

- AISI 316L Stainless Steel work bench
- Fixed or height adjustable carrying table
- In-cab pipette hanger
- In-cabin shelving system

FUME HOOD

The laboratory chemical fume hood is the most common local exhaust ventilation system used in laboratories.

When used properly, fume hoods offer a significant degree of protection for the user.

The purpose of a chemical fume hood is to prevent the release of hazardous substances into the general laboratory space by controlling and then exhausting hazardous and/or odorous chemicals.

The exhaust fan is typically stationed at the top and pulls air through the duct work connected to the hood and exhausts it into the atmosphere.

In the event of an accidental spill, the fume hood will contain the spilled chemicals and exhaust the fumes away from the user and laboratory zone.

Model	MCO-90	MCO-120	MCO-150	MCO-180
İnternal Dimensions (WxDxH) mm	836x650x941	1136x650x944	1436x650x944	1790x652x680
External Dimensions (WxDxH) mm	900x750x2210	1200x750x2210	1500x750x2210	1800x750x2210
Transport Stand Dimensions (WxDxH) mm	900x750x933	1200x750x933	1650x870x890	1800x750x933

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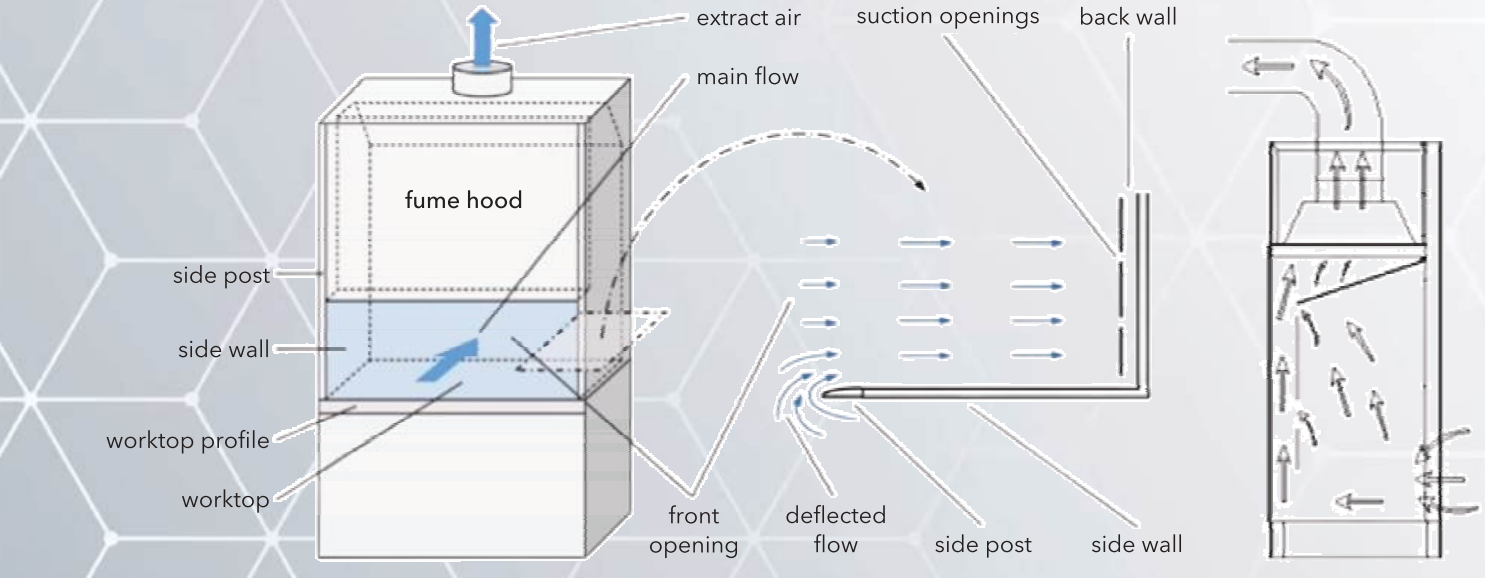
MAIN FEATURES

• Main body is constructed of 1 mm thick electrogalvanized steel (zinc coated to prevent rusting even if the powder coat is abraded) with epoxy antimicrobial powder-coated finish that also prevents contamination.
• Rugged dual-wall construction.
• Slotted rear baffle for even plenum balance
• The hood has a vertical-rising glass/sash with automatic motor control, height adjustable.
• Availability of different worktop materials accommodate different chemical handlings. Worktop at a height of 930mm with a raised rim.
• The fume hood is equipped with easy to use controls which are fixed outside the working area in order to provide convenient working environment.
• The base ventilated cabinet for materials with 1 shelf or support stand.
• Electrical outlets are mounted outside the work zone within easy reach.
• İnternal lighting to prevent accidents when handling chemicals.
• The fan motor is resistant to acid, base and solvent vapors.
• Noise levels less than 60 db(A).
• Suction process is suitable for air flow physics.
• The fume hood can be produced in desired dimensions for different worktable dimensions offered to the user.
• Standard Accessories: Fluorescent lamp, Water tap, Water PP sink, Base Cabinet, 2 Waterproof sockets, 2-3 meter PVC exhaust duct, pipe straps.
• Optional Accessories - Active Carbon filter, HEPA filter, Gas tap, Vacuum tap, Air tap
• Compliance with ASHRAE 110-2016 or EN 14175 to guarantee fume containment.
• CE & ISO certified.



CHEMICAL STORAGE CABINE

A chemical storage cabinet is ideally suited for the legally compliant storage of toxic, nonflammable chemicals and toxic substances in working areas. Available in a 3 range of cabinet sizes, the chemical storage cabinet allows for safe sample storage and is ideal for chemistry, pathology, pharmaceutical and biological laboratories.

The standard chemical storage cabinets is made by 1.0mm thickness high quality cold rolled steel plates and painted by epoxy resin powder. The chemical storage cabinets are equipped with silent duct-type polypropylene fan that discharge chemical vapors into outdoor. There is 150 mm ventilation output for ventilation connection on the top, a special polypropylene flexible pipe that is resistant to chemicals and suitable for the fan outlet diameter is used.

There are moveable shelves-trays with telescopic rails in the chemical storage cabinets. There are fresh air inlet grilles on the cabinet doors. There is an insulation seal between the cabinet and the doors. Doors are lockable. The doors and side surfaces of chemical storage cabinets are double-walled.

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TECHNICAL SPECIFICATIONS

Model	MKS-60	MKS-90	MKS-120
Type	2 Swing Doors		
Ventilation output diameter	150 mm		
Colour	RAL 7035 (Light Gray)		
Shelves	4 drawer shelf system		
Power consumption (W)	30	30	30
Power Supply (Voltage)	220 V / 50...60 Hz		
Internal Surface	Electrostatic Powder Painted Steel		
External Surface Structure	Electrostatic Powder Painted Steel		
External Dimensions (W x D x H) cm	60x60x195	90x60x195	120x60x195

CLIMATE CHAMBER

A climatic chamber is an enclosed space used to test the effects of specified environmental conditions on biological items, industrial products, materials, and electronic devices and components. The chamber is using to measure the impact of various temperature settings, humidity and light forms on a product. Stability, artificial aging and storage test can be easily done as well.

- PID-controlled heating, cooling and humidification.
- Humidity Range : %20-%95 Rh.
- Inner door made of tempered safety glass.
- Operation with LCD screen.
- Internal data logger, measured values can be read out in open format via USB.
- It has a reliable refrigeration system with compressor.
- To ensure even temperature distribution, the chamber has an air circulation system with a
- fan. This improves temperature uniformity throughout the chamber.
- Ø20 mm access port.

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TECHNICAL SPECIFICATIONS

Model	MIT-120	MIT-250	MIT-400	MIT-600
Temp. Working Range without Humidity	Lights off - 10 °C/+ 60 °C-Lights on + 10 °C/+ 60 °C			
Temp. Working Range with Humidity	+ 10 °C/+ 60 °C			
Humidity Accuracy	%1 RH			
Temp. Display Accuracy	0,1 °C			
Lighting (optional)	10.000 Lux			
Time setting	1 min. to 999 hours 59 min for Each Step+ Hold Position			
No of Program Memory	10 Programs with 10 Steps			
No of Program Repetition	1-999			
Capacity L	120	250	400	600
Shelves (Stand./Max.)	3/7	4/10	4/12	4/12
Power consumption (W)	2750	2750	4000	4000
Power Supply (Voltage)	220 V 50 Hz			
Internal Surface	Stainless Steel			
External Surface Structure	Electrostatic Powder Painted Steel			
Internal Dimensions (W x D x H) cm	50x43.5x75	54x55x90	65x65x102	74x70x115
External Dimensions (W x D x H) cm	72x75x158	76x86.5x170	87x96.5x185	96x101x200

DRY HEAT STERILIZER

A drying oven is a heated chamber used to remove water, moisture, and other solvents from objects. These ovens typically have a fan which sparks the convection process that heats and dries the materials inside. Drying ovens are used across many different industries and laboratories and can come in various sizes with multiple temperature capabilities to meet specific production needs.

Drying ovens are used for a number of reasons in laboratories, businesses, and homes. They can perform simple tasks such as drying and sterilizing lab equipment like glassware. However, industrial drying ovens can also be used for more challenging tasks that require controlled heating.

Convection drying ovens use high temperatures to carefully increase the rate at which products dehydrate. They are commonly used for pre-heating, baking, aging, sterilization, and thermal storage.

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TECHNICAL SPECIFICATIONS

Model	MST-30	MST-55	MST-120
Temperature Working Range	Ambient Temperature +5 °C / +250 °C Optional +5 °C / +300 °C; +5 °C / +400 °C		
Temperature Sensor	FE-CONST		
Control System	Programmable PID Microprocessor Control System		
Temperature Uniformity (100°C - 160°C)	± 2 °C		
Temp. Fluctuation	± 1 °C		
Time Setting	1 Minute - 99.9 Hours + hold position		
Capacity L	30	55	120
Number of Shelves (Standard/Maximum)	2/4	2/6	2/6
Security Thermostat	Analog Thermostat (50 °C / 300 °C)		
Power consumption (W)	1500	1500	1750
Power Supply (Voltage)	220 V 50 Hz		
Internal Surface	Stainless Steel		
External Surface Structure	Electrostatic Powder Painted Steel		
Internal Dimensions (W x D x H) cm	33 x 30 x 33	40 x 35 x 40	50 x 43 x 55
External Dimensions (W x D x H) cm	51 x 51 x 61	58 x 56 x 68	68 x 64 x 83

DRYING OVEN

A drying oven is a heated chamber used to remove water, moisture, and other solvents from objects. These ovens typically have a fan which sparks the convection process that heats and dries the materials inside. Drying ovens are used across many different industries and laboratories and can come in various sizes with multiple temperature capabilities to meet specific production needs.

Drying ovens are used for a number of reasons in laboratories, businesses, and homes. They can perform simple tasks such as drying and sterilizing lab equipment like glassware. However, industrial drying ovens can also be used for more challenging tasks that require controlled heating.

Convection drying ovens use high temperatures to carefully increase the rate at which products dehydrate. They are commonly used for pre-heating, baking, aging, sterilization, and thermal storage.

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TECHNICAL SPECIFICATIONS

Model	MKD-250	MKD-500	MKD-750
Temperature Working Range	Ambient Temperature +5 °C / +250 °C Optional +5 °C / +300 °C; +5 °C / +400 °C		
Temperature Sensor	FE-CONST		
Control System	Programmable PID Microprocessor Control System		
Temperature Display Accuracy	± 1 °C		
Temp. Fluctuation	± 2 °C ± 4 °C		
Time Setting	1 Minute - 99.9 Hours + hold position		
Capacity L	250	500	700
Number of Shelves (Standard/Maximum)	2/4	2/6	2/6
Power consumption (W)	3500	5000	7000
Power Supply (Voltage)	220 V 50 Hz	380 V 50 Hz	380 V 50 Hz
Internal Surface	Stainless Steel		
External Surface Structure	Electrostatic Powder Painted Steel		
Internal Dimensions (W x D x H) cm	56 x 50 x 89	75 x 67,5 x 100	75 x 80 x 125
External Dimensions (W x D x H) cm	73,5 x 72 x 135	92,5 x 89 x 146	92,5 x 101 x 171

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LABORATORY INCUBATOR

A laboratory incubator is one of the most important technology in the microbiology lab. It is a temperature-controlled chamber used to grow and maintain microbial cultures. Its main role is to control environmental factors to create a safe and reliable environment free of contaminants for work with cell and tissue cultures.

Laboratory Incubator offers maximum thermal performance. It is the ideal choice for applications that require uniformity throughout the chamber

Microorganisms are grown in incubators in various fields, such as pharmaceuticals, agriculture, environmental, food, and industrial microbiology, public health, fundamental research, and education.

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TECHNICAL SPECIFICATIONS

Model	MIN-30	MIN-55	MIN-120	MIN-250
Temp. Working Range	+5 °C / +80 °C			
Temperature Sensor	FE-CONST			
Control System	Programmable PID Microprocessor Control System			
Temp. Display Accuracy	0,1 °C			
Temp. Fluctuation	0,5 °C			
Time setting	1 min. - 99 hours + Indefinite Operation			
Capacity L	30	55	120	250
Number of Shelves (Standard/Maximum)	2/6	2/8	2/10	2/12
Power consumption (W)	350	350	350	700
Power Supply (Voltage)	220 V 50 Hz			
Internal Surface	Stainless Steel			
External Surface Structure	Electrostatic Powder Painted Steel			
Internal Dimensions (W x D x H) cm	33x30x33	40x35x40	50x47x55	75x80x125
External Dimensions (W x D x H) cm	51x51x61	58x56x68	68x65x83	92,5x101x171

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SHAKING INCUBATOR

Simple and compact shaking incubators are specialized for mixing and shaking with exactly reproducible circular movements and temperatures up to 60°C. Shaking incubators are wellsuited for applications such as homogenizations, incubations, fermentation or chemical and biochemical reactions. This device is supplied with a universal platform with springs.

Our models feature a microprocessor PID controller and an forced-air circulation system to provide exceptional temperature uniformity and rapid heat recovery throughout its stainless steel chamber. The timer is programmable. The incubators also feature an independent overtemperature thermostat that eliminates over-heating. The incubators incorporate an inner glass door.

All of our incubators are energy efficient and come with a host of features that provide safe and easy operation.

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TECHNICAL SPECIFICATIONS

Model	MCI-55	MCI-120	MCI-250
Temperature Working Range	+ 5 °C / +60 °C		
Temperature Sensor	Programmable PID Microprocessor Control System		
Control System	LCD full colour touch screen		
Temperature Display Accuracy	0,1 °C		
Temp. Fluctuation	1 Minute - 99.9 Hours + hold position		
Time Setting	50-250 rpm, Orbital shaking motion		
Temp. Fluctuation	0-99 hours 59 minutes		
Time Setting	9 programs with 9 steps each		
Capacity L	55	120	250
Time Setting	Universal with springs With holders for flasks 250 ml/500 ml (optional)		
Number of Shelves (Standard/Maximum)	350	600	1200
Internal Surface	220 V 50 Hz		
External Surface Structure	Stainless Steel		
External Surface Structure	Electrostatic Powder Painted Steel		
Internal Dimensions (W x D x H) cm	38x45x38	51x55x51	56x55x90
External Dimensions (W x D x H) cm	53x61x77	66x71x90	71,5x73x130

COOLING INCUBATOR

Cooled incubators is a thermostatic device designed to store samples at a specific temperature. Device have a heating system and a cooling system, so samples can be stored/incubated above or below ambient temperature. They are widely used in pharmaceutical, food, chemical, electronics, cosmetics, microbiology, and other industries.

Laboratory cooling incubator offer the largest temperature ranges -10 C to 60 C.

Our models feature a microprocessor PID controller and an forced-air circulation system to provide exceptional temperature uniformity and rapid heat recovery throughout its stainless steel chamber. The timer is programmable. The incubators also feature an independent overtemperature thermostat that eliminates over-heating. The incubators incorporate an inner glass door and two standart adjustable shelves are included.

All of our cooling incubators are energy efficient and come with a host of features that provide safe and easy operation

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TECHNICAL SPECIFICATIONS

Model	MSI-55	MSI-120	MSI-250
Temperature Working Range	- 10 °C / +60 °C		
Control System	Programmable PID Microprocessor Control System		
Display	LCD full colour touch screen		
Temp. Display Accuracy	0,1 °C		
Temp. Uniformity (37 °C)	0,5 °C	1 °C	1 °C
Time Setting	1 Minute - 99.9 Hours + hold position		
Program Delay	0-99 hours 59 minutes		
Programm Memory	9 programs with 9 steps each		
Cooling System/Refrigerant	Refrigeration compressor/R134A		
Capacity L	55	120	250
Number of Shelves (Standard/Maximum)	2/4	2/6	2/8
Power consumption (W)	650	750	1500
Power Supply (Voltage)	220 V 50 Hz		
Internal Surface	Stainless Steel		
External Surface Structure	Electrostatic Powder Painted Steel		
Internal Dimensions (W x D x H) cm	38x40x38	50x50x50	54.5x53.5x90.5
External Dimensions (W x D x H) cm	53x66x75	65x76,5x111	76x86x130

SHAKING INCUBATOR WITH COOLING

It is a temperature-controlled biochemical device that combines incubation with cooling and shaking function. Such model is saving space in the laboratory It is widely used in cell culture, fermentation, hybridization, biochemistry, research of enzyme and cell tissue, which requires higher quality temperature control and shaking speed. This device is supplied with a universal platform with springs.

Laboratory cooling shaker incubator offer the largest temperature ranges -10 C to 60 C.

Our models feature a microprocessor PID controller and an forced-air circulation system to provide exceptional temperature uniformity and rapid heat recovery throughout its stainless steel chamber. The timer is programmable. The incubators also feature an independent overtemperature thermostat that eliminates over-heating. The incubators incorporate an inner glass door.

All of our incubators are energy efficient and come with a host of features that provide safe and easy operation.

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TECHNICAL SPECIFICATIONS

Model	MÇS-55	MÇS-120	MÇS-250
Temperature Working Range	- 10 °C / +60 °C		
Control System	Programmable PID Microprocessor Control System		
Display	LCD full colour touch screen		
Temp. Display Accuracy	0,1 °C		
Time Setting	1 Minute - 99.9 Hours + hold position		
Speed Range	50-250 rpm, Orbital shaking motion		
Program Delay	0-99 hours 59 minutes		
Programm Memory	9 programs with 9 steps each		
Cooling System/Refrigerant	Refrigeration compressor/R134A		
Capacity L	55	120	250
Shaking platform	Universal with springs With holders for flasks 250 ml/500 ml (optional)		
Power consumption (W)	750	750	1500
Power Supply (Voltage)	220 V 50 Hz		
Internal Surface	Stainless Steel		
External Surface Structure	Electrostatic Powder Painted Steel		
Internal Dimensions (W x D x H) cm	38x40x38	50x50x50	54.5x53.5x90.5
External Dimensions (W x D x H) cm	53x66x75	65x76,5x111	76x86x130

CO2 INCUBATOR

A CO2 incubator is a specialized laboratory equipment used to maintain optimal conditions for the growth and development of cells, tissues, or microorganisms. Conditions maintained within an incubator generally include temperature control and carbon dioxide (CO2) concentration regulation. This type of incubator creates an environment that mimics body temperature, and the same level of carbon dioxide found in a healthy human body. They are used for growing cells, tissues, and other types of cultures that must protect from influences such as temperature changes, air presence, or exposure to light or oxygen.

CO2 incubators are commonly used for cell culture processes in the pharmaceutical industry and medical research labs. For instance, they are often used to maintain the temperature and humidity levels essential for culturing cells in a lab setting. In addition, it can be used to monitor the growth of diverse cell cultures, including stem cells and cancer cells.

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TECHNICAL SPECIFICATIONS

MODEL	MCO2
Temperature Working Range	+5 °C / +60 °C
Heating method	Direct Heat and Air Jacket
Temperature sensor	PT100
Control System	Programmable PID Microprocessor Control System
Temp. Set and Display Accuracy	0,1 °C
Humidity range	90%-95%
Humidity method	Humidity pan, 2 L
Temp. Fluctuation	± 0,2°C
CO^2 Range	0 - 30 %; CO^2 Sensor Infra-Red (IR)
CO^2 Set and Display Accuracy	±0.1%
Time Setting	Time Setting from 1 second and continuous
Capacity L	160 liters
Number of Shelves	Standard/Maximum 2/6
Heating System	Air jacketed
Power consumption (W)	650W
Power Supply (Voltage)	220 V 50 Hz
Internal Surface	Stainless Steel
External Surface Structure	Electrostatic Powder Painted Steel
Internal Dimensions (W x D x H) mm	450x503x705
External Dimensions (W x D x H) mm	710x730x1010

MUFFLE FURNACE

The Muffle furnace is a universal laboratory furnace, capable of reaching temperatures up to 1100 C, 1200 C and 1300 C. It is designed for materials testing, heat treatment, ceramic and stoneware samples firing. The furnace can be used in laboratories, educational institutions, ceramic studios and industrial laboratories.

The furnace is benchtop-type with a built-in chimney for air extraction, which extends the life of the heating element and furnace. Heating elements are coiled around the ceramic tubes and placed on the two sides of the chamber to ensure very good temperature uniformity and fast heating. Muffle furnace has ceramic fiber insulation, which provides faster heat-up and reduced energy consumption.

Horizontal side swing door (Optionally door can be opened upwards). Control panel LCD screen is placed in the underpart of the furnace. There is a switch which cuts off the power of the heaters when lid is opened.

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TECHNICAL SPECIFICATIONS

Model	MKF-05	MKF-07	MKF-10	MKF-20
Max temperature range (°C)	1100°C Optionally 1200°C and 1300°C			
Continious Operating Temperature	950°C - 1050°C Optionally 1050°C-1150°C and 1150°C-1250°C			
Control System	Programmable PID Microprocessor Control System			
Temp. Display Accuracy	0,1 °C			
Thermocouple	Type K (1300 °C Type S)			
Time setting	1 min. to 999 min. + Hold Position			
No of Program Memory	10 Programs with 5 Steps			
Capacity L	5	7	10	20
Power consumption (W)	2000	3000	3000	3500
Power Supply (Voltage)	220 V 50 Hz			380 V 50 Hz
Internal Surface	Fiber muffle			
External Surface Structure	Electrostatic Powder Painted Steel			
Internal Dimensions (W x D x H) cm	15x25x15	17.5x25x17.5	20x28x19	28x33x22.5
External Dimensions (W x D x H) cm	42.5x50x58	45x50x60	47.5x53x61	62x56x66

WATER BATH

MİKROTEST Water Baths are engineered with a focus on temperature uniformity, safety, and reliability, which making them ideal for biomedical, life science, industrial, and food and wine testing applications.

Available in 6, 15, 30, and 48-litre capacities, they feature precision digital PID control with a digital display for easy temperature monitoring and adjustment. A protective, perforated tray sits above the heated floor to protect your samples from directly contacting the heater. Convenient carry handles assist with moving the bath if needed. All baths feature a simple-touse drain.

Main body is made from corrosion protected mild steel with an epoxy powder coated finish. The inner tank is made from grade 304 stainless steel for exceptional corrosion resistance. The inner tank made with rounded corners for easy cleaning.

Our water baths are equipped with safety features such as over-temperature protection, which shuts off the heating element if the temperature exceeds a set limit, ensuring the safety of both samples and the device.

Accessories for different sizes of tubes and flask are optional.

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TECHNICAL SPECIFICATIONS

Model	MSB-06	MSB-15	MSB-30	MSB-48
Temperature Range	Ambent Temp + 5°C to 99,9°C			
Control System	PID Microprocessor Control			
Temp. Display Accuracy	0,1 °C			
Temperature Sensor	PT 100			
Time setting	1 minute – 99,9 hours + Hold Position			
Delayed Start Timer	1 minute – 99,9 hours			
Capacity L	6	15	30	48
Power consumption (W)	900	900	1500	2000
Power Supply (Voltage)	220 V 50 Hz			
Internal Surface	Stainless Steel			
External Surface Structure	Electrostatic Powder Painted Steel			
Internal Dimensions (W x D x H) cm	29x14x25	29x23x25	49x29x25	49x61x20
External Dimensions (W x D x H) cm	34x19.5x41	34.5x28.5x41	49x29x25	56x68.5x41

SHAKING WATER BATH

Shaking baths are used with samples that require shaking during incubations. Such water baths are able to transfer heat more rapidly and efficiently. Repetitive oscillation mode ensures the samples are uniformly mixed under temperature control, suitable for various experimental needs.

Available in 30 litre capacity, it feature precision digital PID control with a LCD screen which i clearly shows the working status and setting parameters, providing a user-friendly operation experience. Shaking Water Bath is delivered with stainless steel wire rack. Shaking speed is variable. The bath feature a simple-to-use drain.

Main body is made from corrosion protected mild steel with an epoxy powder coated finish. The inner tank is made from grade 304 stainless steel for exceptional corrosion resistance. The inner tank made with rounded corners for easy cleaning.

Our shaking water bath is equipped with safety features such as over-temperature protection, which shuts off the heating element if the temperature exceeds a set limit, ensuring the safety of both samples and the device.

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TECHNICAL SPECIFICATIONS

MODEL	MCS-30
Temperature Range	Ambent Temp + 5°C to 99,9°C
Control System	PID Microprocessor Control
Temp. Display Accuracy	0,1°C
Temperature Sensor	PT 100
Time setting	1 min. - 99.9 hours + Hold position
Delayed Start Timer	1 minute – 99,9 hours
Temperature Uniformity @37°C	±0,5°C
Shaking Speed Range	50-250 rpm
Shake Motion	Horizontal
Capacity L	30
Power consumption (W)	1750
Power Supply (Voltage)	220 V 50 Hz
Internal Surface	Stainless Steel
External Surface Structure	Electrostatic Powder Painted Steel
Internal Dimensions (W x D x H) mm	30x50.5x19
External Dimensions (W x D x H) mm	77x36x44

ULTRASONIC WATER BATH

An ultrasonic bath is a cleaning device that allows for thorough cleaning in almost any metal, plastic, ceramic or other material. Ultrasonic Baths use sound waves and liquid to clean small objects. Ultrasonic Bath offers gentle effective cleaning action ensuring that no contaminants get carried over from the previous process.

Available in 6, 12 and 28-litre capacities. All functions like time and heating preselection are arranged on the analogue control panel on the front of the device where users can set and monitor them at a glance. Convenient carry handles assist with moving the bath if needed. All baths feature a simple-to-use drain.

Ergonomic stainless steel lid reduces noise volume and minimises potential of aerosol escape. Stainless steel 304 basket designed specifically to generate maximum ultrasonic activity, prevent items resting on the tank and prevent operators coming into contact with chemical solutions.

Each bath is uniquely identified with its own serial number recorded on our product database. Electrically tested for safety at final inspection

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TECHNICAL SPECIFICATIONS

Model	MUB-06	MUB-12	MUB-28
Control System	Ananalogue		
Temperature range	Ambent Temp + 5°C to 99,9°C		
Operating frequency	28 KHz		
Timer	0-60 minutes		
Ultrasonic Power Suppply	200	300	550
Heater Power Supply	350	700	1000
Total Power Supply	550	1000	1550
Capacity L	6	12	28
Internal Surface	Stainless Steel		
External Surface Structure	Electrostatic Powder Painted Steel		
Internal Dimensions (W x D x H) cm	28x13x15	28x22x20	50x30x20
External Dimensions (W x D x H) cm	35x21x35	36x30x39	56x36x42

REFRIGERATED CIRCULATOR

A refrigerated circulator is a device that maintains the temperature of a bath by circulating liquid through it. It consists of a bath, a refrigeration system, a heating system, and a pump to circulate the liquid. The bath is filled with a liquid, such as water and alcohol, which is circulated through the system. The refrigeration system cools the liquid, while the heating system heats it up, maintaining a specific temperature range.

The design of refrigerated circulator is made for easy and time-saving operation. Corrosionresistant, leak-proof, round-cornered, and easy-to-clean stainless steel bath with drain valve.

- Possible to set and save 10 programs.
- 10 steps per a program and 99 hours 59 minutes per a step.
- Stored programs are easily linkable.
- Programs can be repeated up to 99 cycles.
- Overheating protection system

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TECHNICAL SPECIFICATIONS

Model	MSS-07	MSS-15
Temp. Working Range	- 20 °C/ - 40 °C + 100 °C	
Temp. Display Accuracy	0,1 °C	
Temp. Control/Temp. Sensor	PID/PT100	
Time Setting	99 Hours 59 min.	
Refrigerant	R404a	
Cooling	1/2 Hp	
Heater	1000 W	
Cooling power at -20°C	614 W	
Cooling power at -40°C	213 W	
Capacity L	7	15
Power Supply (Voltage)	220 V 50 Hz	
Internal Surface	Stainless Steel	
External Surface Structure	Electrostatic Powder Painted Steel	
Internal Dimensions (W x D x H) cm	16x13x18.7	20.8x17.7x18.7
External Dimensions (W x D x H) cm	30x50x64.5	34.5x60x64.5

WATER DISTILLER

Water distiller is a device which is used to purify water using distillation process, which is related to first boiling impure water after that collecting condensed water in a separate container. This distilled water is used in laboratory, organic chemistry lab, clinic, fermentation and medical industry etc.

MİKROTEST wide range of water distillers (with storage tank and without) can generate high grade distilled water.

- Fully automatic operation with microprocessor control system
- Automatic control system that stops the operation of the device when the distilled water tank is full and restarts when the tank is empty
- High purity distilled water - conductivity approx 2,3 µS/cm
- Suitable for bench and wall mounting
- All parts that contact water or steam are made of high-quality stainless steel
- Easily accessed evaporator & storage tank for effortless cleaning and maintenance
- All parts and tools for installation included
- Optionally can be supplied with siliphos cartridge filter to decrease calcification on the heaters.

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TECHNICAL SPECIFICATIONS

Model	MSD-4000	MSD-8000	MSD-8008	MSD-8012
Control System	Analogue			
Distillation capacity	4 l/h	4 l/h	8 l/h	12 l/h
Storage tank volume	-	8 l	16 l	24 l
Water consumption	40 l/h	40 l/h	80 l/h	120 l/h
Water Conductivity	~ 2,3 µS/cm			
Power consumption (W)	3000	3000	6000	9000
Power Supply (Voltage)	220 V / 50...60 Hz		380 V / 3ph 50...60 Hz	
Internal Surface	Stainless Steel			
External Surface Structure	Electrostatic Powder Painted Steel			
Heater material	Stainless Steel			
External Dimensions (W x D x H) cm	32x37x53	53x40x52	64x40x64	74x50x74

SOXHLET EXTRACTOR

The soxhlet apparatus is used for the continuous extraction of fats and oils from solid material using an organic solvent.

A 2 place, 4 place and 6 place system is available. Each heating unit has individual hotplates of 90 mm diameter with stepless heating control so that the temperature of each hotplate can be operated individually.

The device has a completely monoblock body, and the all system is placed on one surface. Perforated insulation prevents heat transfer between the hotplates and the device body. Practical stand for holding condensers securely between extractions. The device standing on 4 rubber feet. External surface made from electrostatic painted cold-rolled (DKP) steel sheet which is excellent corrosion resistance and rust-free.

The basic extraction system is supplied complete with top moulds, air bath inserts support rods and a connection cable. Reaction flasks for 250 ml / 500 ml and set of hoses are optional.

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TECHNICAL SPECIFICATIONS

Model	MSY-20	MSY-40	MSY-60
Control System	Analogue		
Sample positions	2	4	6
Maximum Operating Temperature	300°C		
Power consumption (W)	1000	2000	3000
Power Supply (Voltage)	220 V / 50...60 Hz		
External Surface Structure	Electrostatic Powder Painted Steel		
External Dimensions (W x D x H) cm	63.5x30x15	65x30x15	95x30x15

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ORBITAL SHAKER

Orbital shaker is laboratory device that is used to shake liquids in closed vessels such as flasks, test tubes, bottles, culture plates, etc. This shaker is widely used in chemistry, biochemistry, molecular biology, microbiology and other scientific research laboratories.

MOC model is a compact benchtop unit. This shaker operate with a 10-mm diameter orbital action, with a shaking speed range from 25 rpm till 250 rpm. Brushless DC motor ensures maintenance-free, reliable and quiet operation. Shakers are equipped with touchpad controls with easy-to-read, independent LCD screen for speed and time allow operator to view both settings simultaneously.

The cradle platform has rubber cushioned horizontal securing bars with quick release handles. They can be easily adjusted both vertically and horizontally to hold most sizes and types of vessel, including flasks, bottles and beakers. The primary advantage of this cradle system is that it can accommodate different sizes of vessel, a common requirement where shakers are used simultaneously by different people in the laboratory.

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TECHNICAL SPECIFICATIONS

Model	MOC
Display	LCD
Display Parameter	Time and Speed
Shaking speed range	25-250 rpm, Orbital shaking motion
Platform dimentions	45x40 cm
Timer	0 - 9999 minutes
Motor Type	Brushless DC Motor
Power consumption (W)	150
Power Supply (Voltage)	220 V / 50...60 Hz
External Surface Structure	Electrostatic Powder Painted Steel
External Dimensions (W x D x H) cm	52x48x31.5

HOT PLATE

Hot plates are frequently used in the laboratory to perform chemical reactions, to heat samples, and for numerous other activities. Hot plates are conceptually simple – a flat surface with heating elements.

Designed with microprocessor controlled this hot plate offer you accurate temperature control and protection from overheating. Equipped with a digital thermostat, it offers precise temperature control within a range of 10°C to 300°C.

The teflon-coated sheet aluminum heating plate is an excellent heat conductor and ideal for applications requiring rapid heating or cooling, also is generally smooth and easy to clean, which reduces the risk of contamination and simplifies maintenance.

Compact, stackable design takes up less benchtop and storage space. Built with a standard mains switch for convenience and power saving

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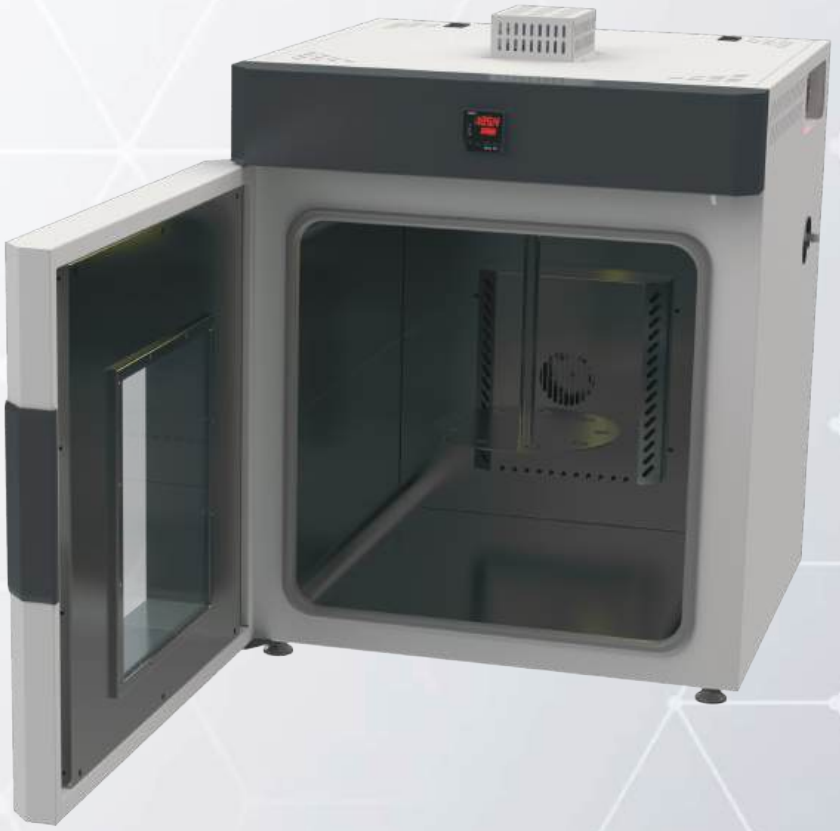
TECHNICAL SPECIFICATIONS

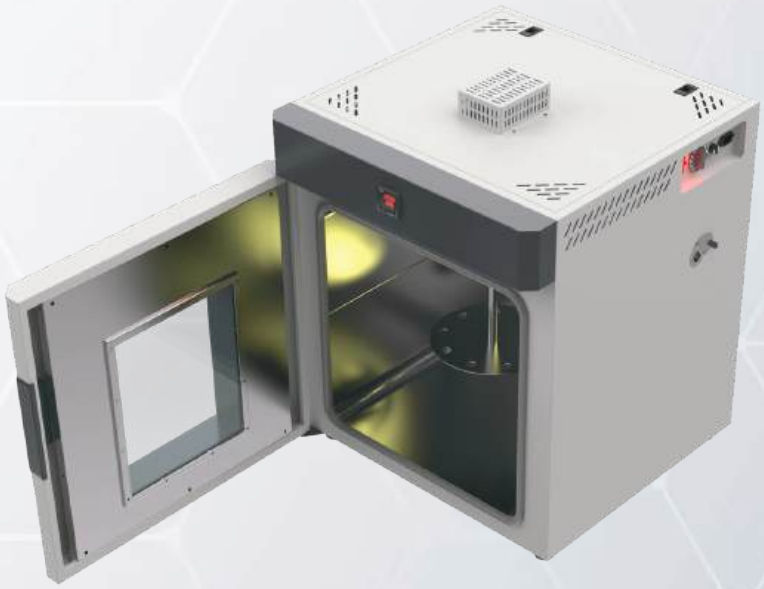
Model	MHP-3030	MHP-4040
Display	Digital display GEMO TT104	
Temperature Working Range	+10°C / +300°C	
Temperature Control	Digital Thermostat	
Temp. Display Accuracy	± 1 °C	
Temp. Fluctuation	± 10 °C	
Platform dimentions (WxD) cm	30x30	40x40
Plate surface	Teflon-coated sheet aluminum	
Timer	1 minute – 99,9 hours + Hold Position	
Power consumption (W)	2000	3000
Power Supply (Voltage)	220 V / 50...60 Hz	
External Surface Structure	Electrostatic Powder Painted Steel	
External Dimensions (W x D x H) cm	30x30x28	40x40x28

THIN-FILM OVEN (TFOT)



Thin-Film Oven Test (TFOT) method is used for determining the loss in mass of bituminous compounds under the effect of heat and air on semisolid bituminous materials.

The internal chamber is made from stainless steel, insulated with fiberglass, with an external frame made electrostatic powder painted steel and a door with a centrally located window. The oven features rubber legs for convenient benchtop operation.



The Control System is digital PID controller. A built-in timer controls test times. Precision temperature control is easily programmed for test temperature, maximum temperature rating of up to 250 C. The oven is equipped with a dual safety thermostat to prevent accidental overheating. The plate rotates at 5-6 rpm.

The oven is supplied without accessories such as containers or trays, which must be ordered separately. Power supply 220 V 50-60 Hz.

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ROLLING THIN-FILM OVEN (RTFOT)

Rolling Thin-Film Oven (RTFOT) measures the effects of heat and air on asphalt binder properties. The RTFOT features an advanced design, solid construction, and reliable accuracy. It meets all test method specifications

The internal chamber is made from stainless steel, insulated with fiberglass, with an external frame made electrostatic powder painted steel and a door with a centrally located window. The oven features rubber legs for convenient benchtop operation.

The oven must be connected to a compressed air source supplying 8 bar presure. 25 lt capacity Air Pressure Pump should be ordered separately.

The Control System is digital PID controller. A built-in timer controls test times. Precision temperature control is easily programmed for test temperature, maximum temperature rating of up to 250°C. The rear inside wall is equipped with a vertical carriage, rotated by an electric motor at 15 1/min.

The oven is supplied complete with flow meter, digital thermostat to maintain 163°C temperature and 8 heat resistant glass containers (64 m high x 140 mm diameter). Power supply 220 V 50-60 Hz.

SIEVE SHAKER

Sieve Shakers impart a circular motion to the material being sieved so that it makes a slow progression over the surface of the sieve.

They are equipped with a dynamic power source which ensures the right vibration is imparted to the sieves and sample for fast, accurate and reproducible tests.

The vertical movement is fixed to ensure the sample spends maximum time on the sieve surface.

The unique vibratory action also helps keep the apertures clear and free from binding.

The MİKROTEST Sieve Shakers are fitted with a very efficient clamping device that ensures sieves are held firmly without over-tightening and allows them to be quickly removed and replaced. The timer can be preset for any duration up to 60 minutes. TOur model has the additional frequency adjustment property.

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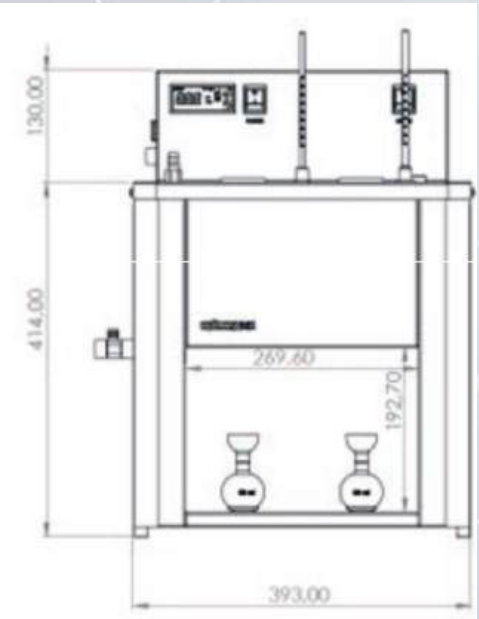
SAYBOLT VISCOMETER

The MİKROTEST Saybolt Viscometer is used to determine empirical measurement of Saybolt Viscosity of petroleum products at specified temperatures. The time it takes for a 60mL sample to flow through a tube with a specified diameter (furol or universal) is measured and reported in seconds.

The viscometer can be used for temperatures between 21 to 99 °C (70 to 210 °F)



The viscometer includes water-oil bath, stirrer, cooling coil, electric heater with digital thermo regulator, furol orifice, universal orifice, thermometer support and 2 x 60 ml glass saybolt viscosity flask.

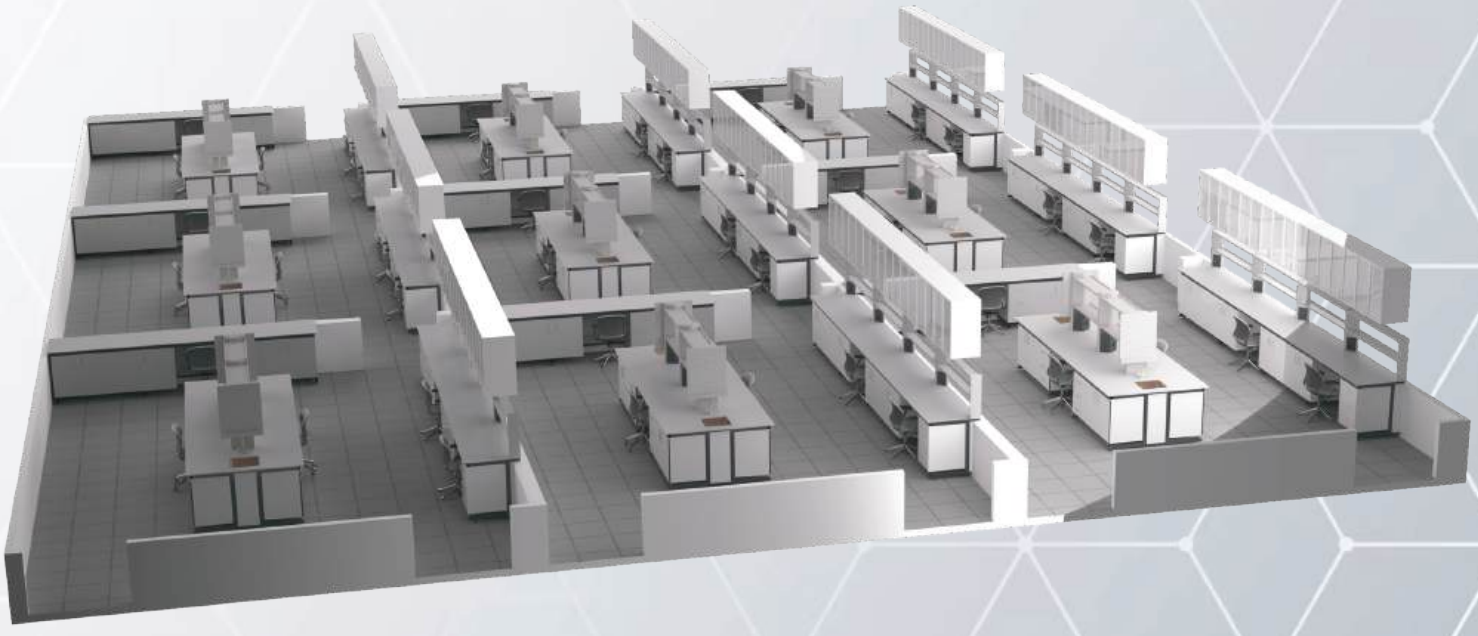
Viscosity Thermometer set consists of 6 thermometers with the temperature ranges; 19 to 27°C, 34 to 42°C, 49 to 57°C, 57 to 65°C, 79 to 87°C (250 mm length) and 95 to 103°C where each thermometer with 0.1°C subdivisions. Filter funnel, withdrawal tube and thermometer set should be ordered separately.

LABORATORY BENCH SYSTEMS

We offers a wide variety of laboratory furniture to suit the needs of every lab. Laboratory tables, sink units, storage cupboards and other furniture can be purchased as standard units or individually modified according to the needs of the customer. The furniture is made either of wood chip board or of metal sheets, depending on the client's preference. Worktops and sinks can be chosen from a wide range of materials depending on the chemical resistance requirements.

The laboratory bench line with "C" structure is a highly configurable modular system, allowing the diversity and flexibility of solutions, according to the needs of use and the available installation space. This laboratory bench has high mechanical resistance, resistance to corrosion, impact and abrasion, high structural and dimensional stability, smooth surfaces for easy cleaning / disinfection and with a load capacity (evenly distributed) greater than 400 kg / m2.

Lower laboratory furniture in which the height varies according to the desired height for laboratory benches. Laboratory furniture is used for storing equipment and storing chemical substances. Safe storage and organiza_on are one of the most important requirements in a laboratory. And the best location for this is precisely close to the work surface, even though space is often reduced. Electricity, gas, eye shower, water and local ventilation connections could be integrated to the workbench.



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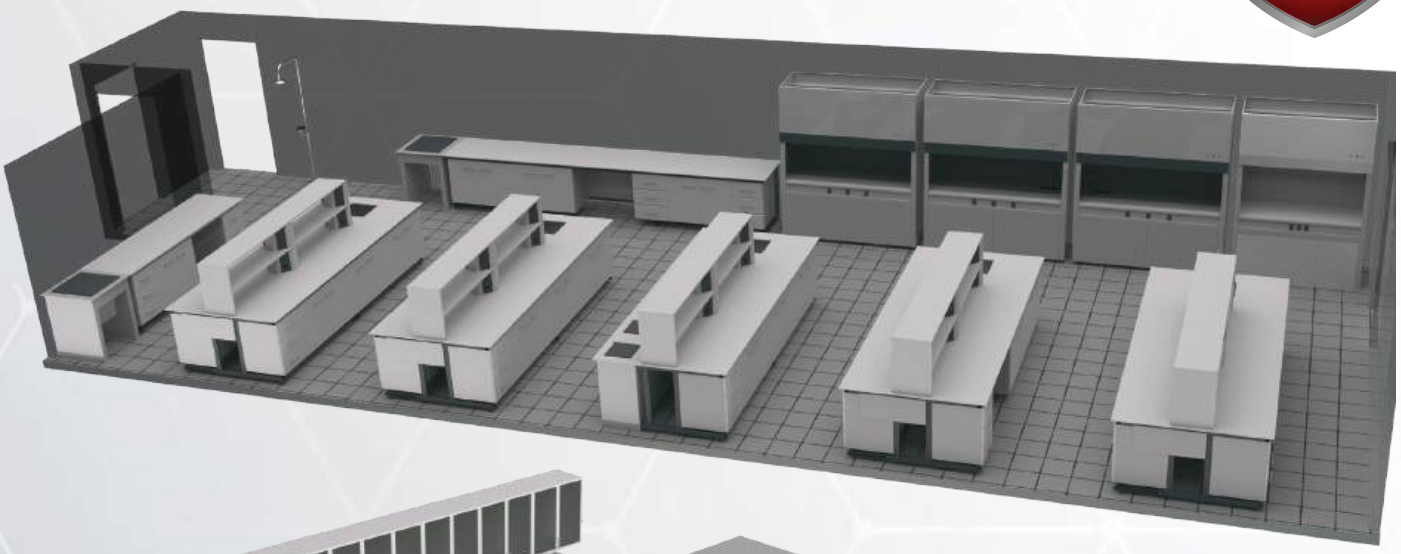

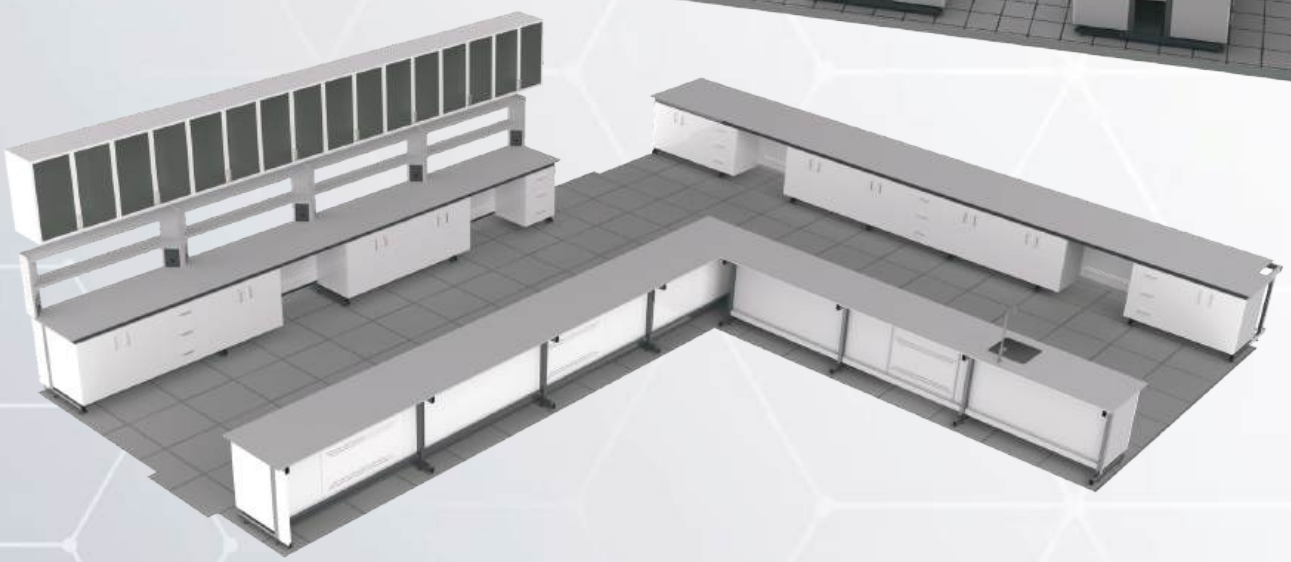

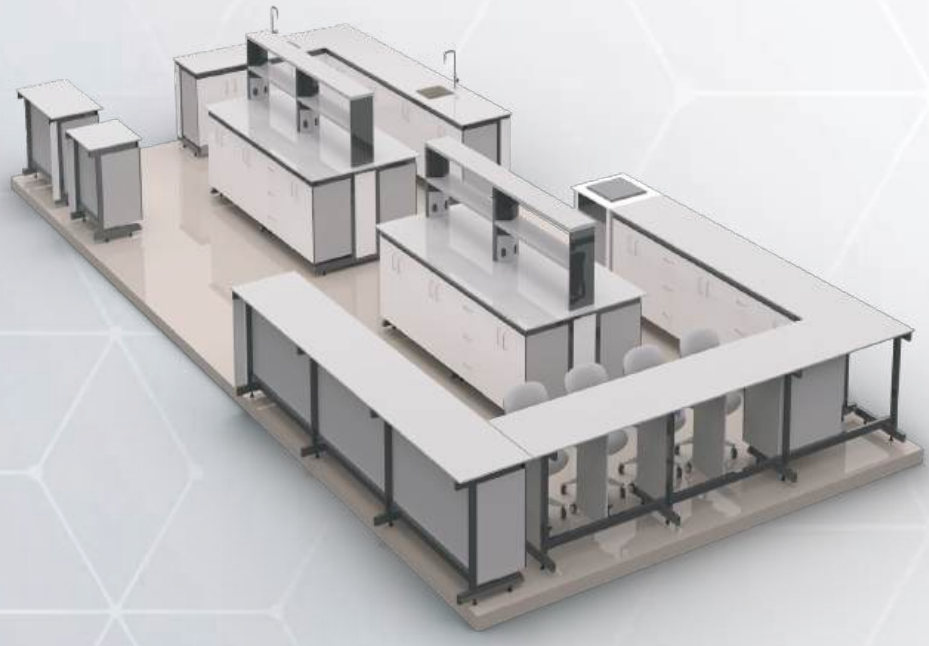

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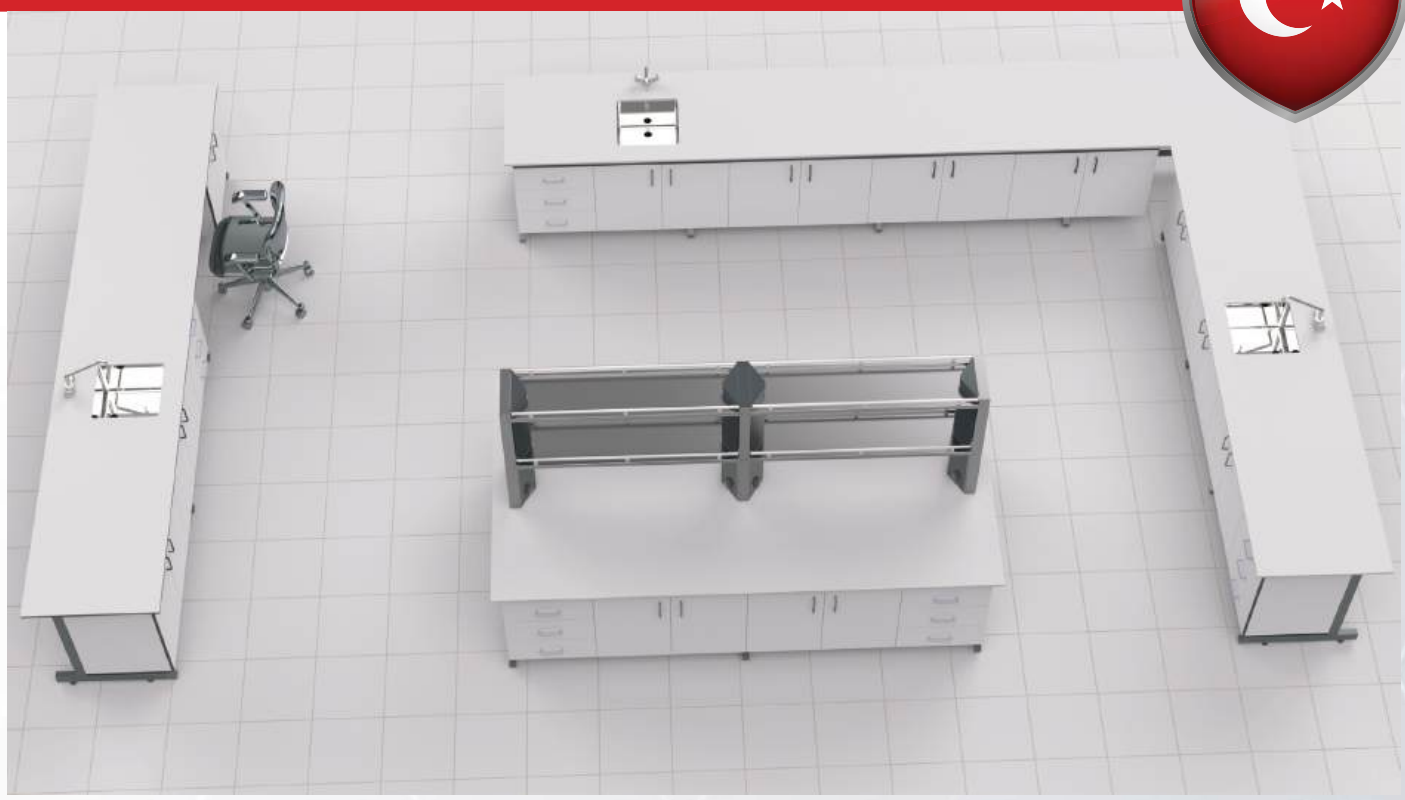

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