

D-160 Handheld Homogenizer

Features

- Portable, lightweight with ergonomic design ideal for manual operations
- Processing volumes from 0.1–50mL or 1–250mL
- Variable speed from 8,000 to 32,000 rpm
- 316L stainless steel shafts are fully autoclavable
- · Interchangeable shafts for easy dismantling and cleaning

Applications

Designed for rapidly homogenize, emulsify, suspend and disrupt biological samples like tissue of animal, bacteria, yeast, plant samples, etc. in liquids. Ideal for samples from 0.1mL to 250mL depending on shaft chosen.



Specifications	D-160	
Speed range	8000-32000rpm	
Max linear velocity	6.3m/sec or 14m/sec	
Speed level	10 stage	
Warking values [LIO]	0.1-50mL (Dispersing shaft DS-160/5)	
Working volume [H ₂ O]	1-250mL (Dispersing shaft DS-160/10)	
Max. viscosity	5,000mPas	
Material of Dispersing Shaft	SS 316L stainless steel, PTFE	
Noise	72 dB(A)	
Protection class	IP20	
Voltage,Frequency	110-120V/60Hz 220-240V/50-60Hz	
Power	160W	
Motor Type	AC carbon brush motor	
Dimension [WxDxH]	45mm x 55mm x 190mm	
Weight	0.54 kg	
Permissible ambient temperature and humidity	0-40℃, 85%RH	



MS7-H550-Pro

LCD Digital Magnetic Hotplate Stirrer With 7 Inch Ceramic Plate

MS7-H550-S

LED Magnetic Hotplate Stirrer With 7 Inch Ceramic Plate





- · LCD displays actual temperature & speed
- Built-in PID controller ensures safe heating of the medium with overheating protection
- Maximum heating plate temperature up to 550°C
- Glass ceramic work plate is resistant to corrosion and is easy to clean
- External temperature control is possible by connecting temperature sensor(PT1000) with an accuracy of ±0, 2°C
- Digital speed control with maximum range of 1500rpm
- Outstanding brushless DC motor offers more stirring power
- Two knobs enable easy adjustment of speed and temperature
- "HOT" warning flashes when work plate temperature is above 50°C even when hotplate is turned off
- Remote function provides PC control and data transmission



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- · Large volume: Up to 30L of liquid on 10-inch hot plate with powerful magnetic stirring
- · Glass ceramic work plate provides excellent chemical resistant performance and most efficient heat transfer
- LCD display for precise monitoring of speed and temperature. External temperature control is possible by connecting
 the temperature sensor (PT1000) with an accuracy at ±0,2°C
- Digital speed control of 100 ~ 1500rpm
- Max, heating plate temperature 500°C
- The "HOT" warning will flash when the work plate temperature is above 50°C even when the hotplate is turned off
- · Data connector: The SD card records the instrument's running data in real time.
- · Timing function; the running time of the instrument can be set,



MS-H380-Pro

LCD Digital Magnetic Hotplate Stirrer

Features

- · Maximum heating temperature is 380°C
- High resolution LCD displays actual temperature and speed
- · Brushless DC motor is maintenance free
- Aluminum ceramic coating work plate, allowing immediate heat transfer
- External temperature control is possible with temperature sensor PT1000
- Digital speed control with maximum speed up to 1500rpm
- · Maximum stirring quantity of H2O at 5L





MS-H280-Pro

LED Digital Magnetic Hotplate Stirrer

DLAB MS-H280-Pro is a perfect hotplate stirrer for handling small volume task and daily applications, with maximum temperature of 280°C

- Digital temperature control with maximum temperature up to 280°C
- · Digital speed control with maximum speed up to 1500rpm
- Stainless steel with ceramic coating work plate provides high chemical resistant performance
- External temperature control is possible by connecting temperature sensor(PT1000) with an accuracy at ±0.2°C
- · LED display shows temperature and stirring speed
- "HOT" warning flashes if work plate temperature is above 50°C



MS-H-PROA

LCD Digital Magnetic Hotplate Stirrer

Three heating models for selecting (fast heating, standard heating and stable heating)

LCD Digital Magnetic Hotplate Stirrer

MS-H-Pro^t

LCD Digital Magnetic Hotplate Stirrer with Timer

MS-H-S

Analog Magnetic Hotplate stirrer



Features

- · Brushless DC motor is maintenance free and explosion-proof
- · Digital temperature control up to 340°C
- · Digital speed control up to 1500rpm
- . Maximum stirring quantity of H2O is 20L
- Safety circuits provide overheating protection
- "HOT" warning flashes if plate temperature is above 50°C even when hotplate is turned off
- Wide range timer function from 1 min to 99h 59min (MS-H-Pro^T only)
- High-resolution LCD display shows actual temperatures and speed (MS-H-Pro^T displays the time)
- · External temperature control is possible by connecting the temperature sensor (PT 1000) with accuracy at ±0,2°C
- · Work plate with ceramic coating provides good chemical-resistantperformance
- Remote function provides PC control and data transmission
- · Wide variety of accessories available to choose

· International safety certification: CE, CTÜVuS, FCC and other product safety cert, certifications issued by TUV Rheinland

Wide range of accessories

- · Safety circuits provide overheating protection
- "HOT" warning flashes if the work plate temperature is above 50°C
- · Brushless DC motor is maintenance free and exposion-proof
- · Fully enclosed aluminum alloy housing with good heat dissipation performance and reliable protection capability



















MX-M Microplate Mixer

Features

- Wide range of speed from 0 to 1,500 rpm (Double microplate:0-1,000 rpm)
- · Excellent performance with electronic speed control
- · High speed and effective mixing for microplates
- With adapters for most popular vessels and microtiter plates
- Used for various mixing applications with optional adapters
- · Maintenance-free brushless DC motor



Applications

DLAB Microplate Mixer is used for holding single or double microplates. The footprint of MX-M Microplate Mixer occupies less bench space and makes the storage easier. It is widely used in life sciences including microbiology, cell and molecular biology, immunology and biotechnology





Brushless DC motor



Wide range of accessories



DLAB mixers range can be divided into different series as per mixing speed, working mode, load capacity etc:

Series	Image	Model	Speed Range	Working mode	Capacity	Page
Vortex Mixer		MX-S	0~3000rpm	Orbital (touch + continuous modes)	-	p, 103
		MX-F	3000rpm (fixed)	Orbital (touch + continuous modes)	-	p.105
		MX-E	3000rpm (fixed)	Orbital (touch mode)	-	p.106
Cell disruptor		MX-C	0~3000rpm	Orbital (touch + continuous modes)	8x2mL	p.107
Microplate Mixer	3	MX-M	0~1500 <mark>rpm</mark>	Orbital (continuous mode)	0.5Kg	p.108
Disk Rotator		MX-RD-Pro	10~70rpm	360° rolling (timer + continuous)	60x1.5mL,16x15mL, 8x50mL, (available for 3 layers)	
Rotisserie Rotator	E	MX-RL-Pro	10~70rpm	360° rolling (timer + continuous)	48x1.5mL,24x15mL, 24x50mL	p.111
Disk Rotator		MX-RD-E	0~80rpm	360° rolling (continuous)	48x2mL,16x15mL, 8x50mL	p.113
Rotisserie Rotator	1111	MX-RL-E	0~80rpm	360° rolling (continuous)	32x2mL, 20x15mL,16x50mL	p.114
Rocking Rotator		SK-R30S-E	0~30rpm	30 ± 3° rocking (continuous)	10x10mL, 4x50mL	p.115
		SK-R30L-E	0~30rpm	30 ± 3° rocking (continuous)	16x10mL 6x50mL	p.115
		SK-R30D-E	0~30rpm	40±3° rocking (continuous)	32x10mL,12x50mL	p.115
Roller Mixer		MX-T6-Pro	0~70rpm	360° rocking&rolling (timer + continuous)	4Kg	p.116
		MX-T6-S/S+	0~70rpm	360° rocking&rolling (continuous)	4Kg	p.116



Overhead stirrers are used for middle or high viscosity samples mixing, widely used in chemical synthesis, pharmaceutical synthesis, physical and chemical analysis, petrochemical industries etc.

Overhead stirrers:

Models					
Models	OS20-Pro	OS20-S	OS40-Pro	os40-s	OS70-Pro
Max. Stirring Quantity(H2 Ol	20L	20L	40L	40L	70L
Gonstant Speed	YES	NO	YES	NO	YES
Display	LCD	LED	LCD	LED	LCD
Speed Range	50-2200rpm	50-2200rpm	50-2200rpm	50-2200rpm	50 - 1100rpm
Мах. Тегцие	40N ⋅ cm	40N · cm	60N ⋅ cm	60 N · cm	300N · cm
Viscesity Max.	10000mPa · s	10000mPa · s	50000mPa · s	50000mPa · s	100000mPa · s
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OS20-Pro/OS40-Pro/ OS70-Pro

LCD Digital Overhead Stirrer

DLAB Overhead Stirrers are competent for most demanding tasks with guaranteed safety and performance. They are widely used in chemical synthesis, pharmaceutical synthesis, physical and chemical analysis, petrochemical industries, etc.



Stirring paddle
"top-cross" design.

easy to replace the container

LCD display of set and actual speed, torque and time (for OS 70)

Specifications	OS20-Pro	OS40-Pro	OS70-Pro
Max. stirring quantity[H2O]	20L	40L	70L
Speed range	50~2200rpm	50~2200rpm	50~1100rpm
Speed display accuracy	± 3rpm	± 3rpm	±10rpm
Time settings range	-	₽	0-99h59min
Max. torque	40N - cm	60N · cm	300N · cm
Viscosity max.	10000mPa · s	50000mPa · s	100000mPa · s
Weight	2.8kg	2.8kg	3.2kg
Motor type	Brushless DC motor	Brushless DC motor	Brushless DC motor
Voltage, Frequency	100~240V, 50/60 Hz	100~240V, 50/60 Hz	100~240V, 50/60 Hz
Speed display	LCD	LCD	LCD
Torque display	LCD	LCD	LCD
Overload protection display	LCD	LCD	LCD
Chuck clamp range diameter	0.5~10mm	0.5~10mm	0.5~10mm
Motor input/output power	60W/50W	120W/100W	180W/160W
Power	70W	130W	200W
Dimension[WxHxD]	83 x 220 x 186mm	83 x 220 x 186mm	83 x 220 x 186mm
Protection class	IP21	IP21	IP21
Permissible ambient temperature and humidity	5~40°C,80%RH	5~40℃,80%RH	5~40°C,80%RH
Data interface	RS232	RS232	RS232