



# 2016 Catalogue

 **major  
science**  
*Innovative Life Sciences Tools*

## Electrophoresis and Blotting

# Mini Horizontal Gel Electrophoresis System

## MJ-105 series MT-108

For MJ-105 series

The MJ-105 horizontal electrophoresis system offers many advantages for nucleic acid separation. Agarose gels are convenient to cast and samples are easy to load with this recognizable mini horizontal cell. Its molded design prevents cracks and leakages and the sturdy PC provides a 130°C temperature capacity. The safety interlock cover is designed to prevent electrical hazards during electrophoresis. It is ideal for several applications, including Northern and Southern blotting, Cosmid library restriction analysis, STS screening, microsatellite analysis, PCR fragment analysis, RFLP analysis, DNA fingerprinting and high throughput analysis.

For MT-108

MT-108 horizontal electrophoresis units offer many advantages for nucleic acid separation. Agarose gels are easy to cast and samples are easy to load. MT-108's longer tray allows running of bigger fragments to attain higher resolution. Its molded design prevents cracks or leakages, and its sturdy PC provides a temperature capacity of up to 130°C. A safety interlocking cover is designed to prevent electrical hazards during electrophoresis runs. It is ideal for many applications, including Northern and Southern blotting, Cosmid library restriction analysis, STS screening, Microsatellite analysis, PCR fragment analysis, RFLP analysis, DNA fingerprinting and high-throughput analysis.

### Features

- Less agarose consumption
- Less running buffer consumption
- Multichannel pipette-compatible
- Single molded tank
- Safety & Ventilation lid
- High temperature capability, 130°C
- Easy sample loading
- Great indications for gel making and running
- No tapes, clamps or springs needed for gel casting
- No direct heat impact from power supply unit

For MJ-105 series additional features

- Two tank color options available
- Contains 2 sets of gel maker stand
- Cast 6 pcs of agarose gel in one time

For MT-108 additional features

- Two tray options available
- Cast 3 pcs of agarose gel in one time



MJ-105 series is offered as a complete system for the user to cast, and run electrophoresis. including:

- 1 x Electrophoresis tank & lid
- 2 x MJ-G01 (gel maker stand)
- 2 x MJ-T02 (107x60mm tray)
- 4 x MJ-T01 (52x60mm tray)
- 1 x MJ-C01 (double side comb: 8 teeth x 2 & 17 teeth; 12 teeth x 2 & 25 teeth)
- 1 x MT-C03 (multiple pipette compatible 23 teeth, Prep 1 & Marker 2, Prep 2 & Marker 2; 6 teeth x 2 for mini gel & 12 teeth for midi gel)
- 1 x Black & red electrophoresis cable



MT-108 is offered as a complete system for the user to cast, and run electrophoresis. including:

- 1 x Electrophoresis tank & lid
- 1 x MT-G01 (gel maker stand)
- 1 x MT-T01 (105x83mm tray)
- 2 x MT-T02 (50x83mm tray)
- 1 x MJ-C01 (double side comb: 8 teeth x 2 & 17 teeth; 12 teeth x 2 & 25 teeth)
- 1 x MT-C03 (multiple pipette compatible 23 teeth, Prep 1 & Marker 2, Prep 2 & Marker 2; 6 teeth x 2 for mini gel & 12 teeth for midi gel)
- 1x Black & red electrophoresis cable



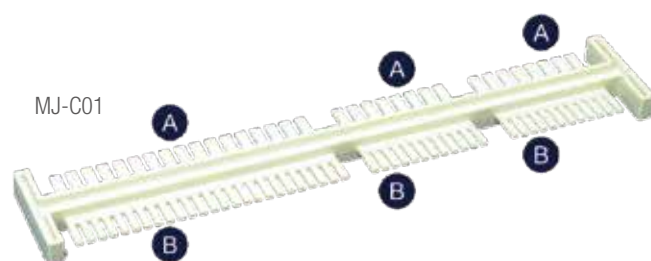
## Specification

Cat. No	MJ-105-S	MJ-105-R	MT-108
Appearance	Snow tank & transparent lid	Transparent red tank & transparent lid	Snow tank & transparent lid
Material	PC (Polycarbonate)		
Temperature capacity	130°C		
Dimension (WxLxH)	5.51"x5.51"x2.09" (140x140x53mm)		5.35"x7.4"x2.28" (136x188x58mm)
Gel dimension (WxL)	4.21"x2.36" (107x60mm)		4.13"x3.27" (105x83mm)
	2.05"x2.36" (52x60mm)		1.97"x3.27" (50x83mm)
Maximum gel thickness	0.39" (10mm)		
Maximum sample	25 samples		
Buffer volume	0.05gal (200ml)		0.11gal (400ml)
Lid	Safety Ventilation		
Tray	Black well-visualization strip		
	Migration distance index line		
	Agarose level, 0.2" (5mm)		N / A
Rapid casting gel	Use gel maker stand		

## Ordering Information

Cat. No	Product Description
MJ-105-S	Snow Mini Horizontal Electrophoresis System
MJ-105-R	Red Mini Horizontal Electrophoresis System
MT-108	Wide Mini Horizontal Electrophoresis System

	Cat. No.	Tooth Thickness	Tooth Width	Sample Volume for a 5mm thick gel (ul)
A	MJ-C01	1.0mm	4.0mm	20
B	MJ-C01	1.5mm	2.8mm	21
C	MT-C03	1.0mm	36.0mm	180
D	MT-C03	1.0mm	17.0mm	85
E	MT-C03	1.0mm	3.0mm	15
F	MT-C03	1.0mm	6.0mm	30
G	MT-C03	1.0mm	6.5mm	32.5

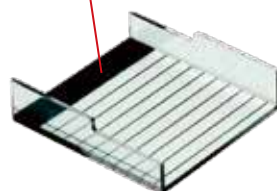


Multichannel pipette compatible

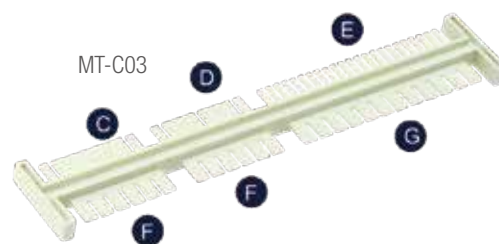


Easy sample loading

Black well-visualization



MT-C03



Agarose level (5mm)

Migration distance index line



Connection trays

## For MJ-105 series

### Single Electrophoresis Packages

<b>MJS-100P</b>	Package of MJ-105-S and MP-100
<b>MJS-Mini300</b>	Package of MJ-105-S and Mini-300
<b>MJR-100P</b>	Package of MJ-105-R and MP-100
<b>MJR-Mini300</b>	Package of MJ-105-R and Mini-300



MJS-100P



MJS-Mini300



MJR-100P



MJR-Mini300



MJSS-Mini300



MJST-Mini300



MJSR-Mini300



MJRR-Mini300



MJRT-Mini300

### Dual Electrophoresis Packages

<b>MJSS-Mini300</b>	Package of 2 x MJ-105-S and Mini300
<b>MJST-Mini300</b>	Package of MJ-105-S & MT-108 and Mini300
<b>MJSR-Mini300</b>	Package of MJ-105-S & MJ-105-R and Mini300
<b>MJRR-Mini300</b>	Package of 2 x MJ-105-R and Mini300
<b>MJRT-Mini300</b>	Package of MJ-105-R & MT-108 and Mini300

## Accessories

Cat. No.	Product Description
<b>MJ-B01-S</b>	Snow tank and lid, without accessories
<b>MJ-B01-R</b>	Red tank and lid, without accessories
<b>MJ-G01</b>	Gel maker stand
<b>MJ-T01</b>	2.05"x2.36" (52x60mm) Tray
<b>MJ-T02</b>	4.21"x2.36" (107x60mm) Tray
<b>MJ-C01</b>	Analytical comb 8 teeth x 2 for mini gel & 17 teeth for midi gel (thickness: 1.0mm), 12 teeth x 2 for mini gel & 25 teeth for midi gel (thickness: 1.5mm)
<b>MT-C03</b>	Analytical comb 1.0mm-thick (multiple pipette compatible 23 teeth, Prep 1 & Maker 2, Prep 2 & Maker 2 on one side; 6 teeth x 2 for mini gel & 12 teeth for midi gel on the other side)
<b>MT-P01</b>	Electrophoresis cable (Black & red)
<b>MJ-CASTER-C</b>	2 x MJ-G01; 4 x MJ-T01; 2 x MJ-T02; 1 x MJ-C01 and 1 x MT-C03



MJ-B01-S



MJ-B01-R



MJ-G01



MJ-T01



MJ-T02



MJ-C01



MT-C03



MT-P01



MJ-CASTER-C

## For MT-108

### Single Electrophoresis Packages

MT-100P	Package of MT-108 and MP-100
MT-Mini300	Package of MT-108 and Mini-300

### Dual Electrophoresis Packages

MJST-Mini300	Package of MJ-105-S & MT-108 and Mini-300
MJRT-Mini300	Package of MJ-105-R & MT-108 and Mini-300
MTT-Mini300	Package of 2 x MT-108 and Mini-300



MT-100P



MT-Mini300



MJST-Mini300



MJRT-Mini300



MTT-Mini300

## Accessories

Cat. No.	Product Description
MT-B01	Wide Mini Tank and lid, without accessories
MT-G01	Gel maker stand
MT-T01	4.13"x3.27" (105x83mm) Tray
MT-T02	1.97"x3.27" (50x83mm) Tray
MJ-C01	Analytical comb 8 teeth x 2 for mini gel & 17 teeth for midi gel (thickness: 1.0mm), 12 teeth x 2 for mini gel & 25 teeth for midi gel (thickness: 1.5mm)
MT-C03	Analytical comb 1.0mm-thick (multiple pipette compatible 23 teeth, Prep 1 & Maker 2, Prep 2 & Maker 2 on one side; 6 teeth x 2 for mini gel & 12 teeth for midi gel on the other side)
MT-P01	Electrophoresis cable (Black & red)
MT-CASTER-C	1 x MT-G01; 1 x MT-T01; 2 x MT-T02; 1 x MJ-C01 and 1 x MT-C03



MT-B01



MT-G01



MT-T01



MT-T02



MJ-C01



MT-C03



MT-P01



MT-CASTER-C

# Midi plus/plus-1/plus-2 Horizontal Electrophoresis System

**ME7-7-10**

**ME10-7-10**

**ME15-7-10-15**

Our Midi series have been designed for routine horizontal gel electrophoresis with wide degrees of versatility. All of our gel tanks are made from injection molded construction for durable and leak proof environment. Varieties of special combs are available to maximize your sample size.

Midi plus includes the 7x7 and 7x10cm gel trays for a maximum of 64 samples, designed for low to medium numbers of samples. Midi plus-1 includes 10x7 and 10x10cm gel tray to allow 100 samples per gel to be resolved. Ideal for those routinely check medium numbers of samples over short to medium gel run lengths.

The Midi plus-2 system provides three sizes of trays to maximize your sample size, 15x7, 15x10, 15x15cm. Midi plus-2 allows up to 210 samples per run per gel.



## Features

Easy click lid removal

- Low buffer consumption
- Single molded tank
- Two tray options available(ME7-7-10, ME10-7-10)
- Three tray options available(ME15-7-10-15)
- Easy sample loading
- Multi-channel pipette compatibility
- Great indications for gel making and running
- No tape, clamps or springs needed

ME7-7-10

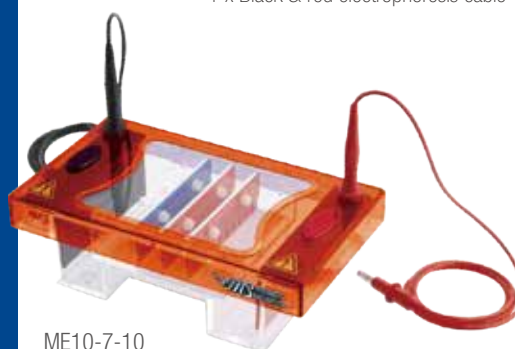


CE

ME7-7-10 is offered as a complete system for the user to cast, and run electrophoresis. including:

- 1 x Electrophoresis tank & lid
- 1 x ME7-UV7 (7x7cm UV tray)
- 1 x ME7-UV10 (7x10cm UV tray)
- 2 x ME7-8-1 (8 sample combs, 1mm thick)
- 1 x ME7-UV DAM (UV tray dams, 2pcs)
- 1 x ME7-LG (Loading guides (Set))
- 1 x Black & red electrophoresis cable

ME10-7-10



CE

ME10-7-10 is offered as a complete system for the user to cast, and run electrophoresis. including:

- 1 x Electrophoresis tank & lid
- 1 x ME10-UV7 (10x7cm UV tray)
- 1 x ME10-UV10 (10x10cm UV tray)
- 2 x ME10-16-1 (16 sample combs, 1mm thick)
- 1 x ME10-UV DAM (UV tray dams, 2pcs)
- 1 x ME10-LG (Loading guides (Set))
- 1 x Black & red electrophoresis cable

ME15-7-10-15



CE

ME15-7-10-15 is offered as a complete system for the user to cast, and run electrophoresis. including:

- 1 x Electrophoresis tank & lid
- 1 x ME15-UV7 (15x7cm UV tray)
- 1 x ME15-UV10 (15x10cm UV tray)
- 1 x ME15-UV15 (15x15cm UV tray)
- 2 x ME15-20-1 (20 sample combs, 1mm thick)
- 1 x ME15-UV DAM (UV tray dams, 2pcs)
- 1 x ME15-LG (Loading guides (Set))
- 1 x Black & red electrophoresis cable

## Specification

Cat. No.	ME7-7-10	ME10-7-10	ME15-7-10-15
Dimension (WxLxH)	8.27"x3.54"x3.54" (210x90x90mm)	8.66"x4.92"x3.54" (220x125x90mm)	10.43"x6.89"x3.54" (265x175x90mm)
Gel dimension (WxL)	2.76"x2.76" (70x70mm), 2.76"x3.94" (70x100mm)	3.94"x2.76" (100x70mm), 3.94"x3.94" (100x100mm)	5.91"x2.76" (150x70mm), 5.91"x3.94" (150x100mm), 5.91"x5.91" (150x150mm)
Maximum sample	32 for 2.76"x2.76" (70x70mm) Tray (2x16 sample combs)	50 for 3.94"x2.76" (100x70mm) Tray (2x25 sample combs)	70 for 5.91"x2.76" (150x70mm) Tray (2x35 sample combs)
	64 for 2.76"x3.94" (70x100mm)Tray (4x16 sample combs)	100 for 3.94"x3.94" (100x100mm) Tray(4x25 sample combs)	140 for 5.91"x3.94" (150x100mm) Tray(4x35 sample combs)
			210 for 5.91"x5.91" (150x150mm) Tray(6x35 sample combs)
Buffer volume	0.06gal (225ml)	0.08gal (300ml)	0.13gal (500ml)
Material	Injection molded construction		
	Durable, leak proof environment for complete safety and long life		
Cassette type electrode	Inexpensive, easy to replace		
	Made of 99.99% corrosion resistant pure platinum		
Electrical safety	Lid can only be fastened in one way		
	Upon lid removal, power is disconnected from buffer chamber		
Rapid casting gel	Use casting dams		

## Ordering Information

Cat. No.	Product Description
ME7-7-10	Midi plus, 7x7cm & 7x10cm UV tray, 2x8 sample 1mm thick combs, loading guides and dams
ME7-Mini300	Package of ME 7-7-10 and Mini-300
ME7-UV7	Midi plus, 7x7cm UV tray
ME7-UV10	Midi plus, 7x10cm UV tray
ME7-UVS	7cm UV gel scoop
ME7-UVDAM	Midi plus, UV tray dams ( 2 pcs )
ME10-7-10	Midi plus-1, 10x7cm & 10x10cm UV tray, 2x16 sample 1mm thick combs, loading guides and dams
ME10-Mini300	Package of ME 10-7-10 and Mini-300
ME10-UV7	Midi plus-1, 10x7cm UV tray
ME10-UV10	Midi plus-1, 10x10cm UV tray
ME10-UVS	10cm UV gel scoop
ME10-UVDAM	Midi plus-1, UV tray dams ( 2 pcs )
ME7/10-FC	Midi plus/Midi plus-1, Flexicaster
ME15-7-10-15	Midi plus-2, 15x7, 10 & 15cm UV tray, 2x20 sample 1mm thick combs, loading guides and dams
ME15-Mini300	Package of ME 15-7-10-15 and Mini-300
ME15-UV7	Midi plus-2, 15x7cm UV tray
ME15-UV10	Midi plus-2, 15x10cm UV tray
ME15-UV15	Midi plus-2, 15x15cm UV tray
ME15/20-FC	Midi plus-2/Maxi, Flexicaster
ME15-UVS	15cm UV gel scoop
ME15-UVDAM	Midi plus-2, UV tray dams ( 2 pcs )



Casting dams allow gels to be rapidly cast



Mini-300

Recommended economic power supply



## For ME7-7-10

Cat. No.	Comb Description	Sample Volume
ME7-1-0.75	Prep 1, Marker 1, 0.75mm thick	152ul
ME7-2-0.75	Prep 2, Marker 2, 0.75mm thick	68ul
ME7-4-0.75	Prep 4, Marker 2, 0.75mm thick	36ul
ME7-8MC-0.75	8 sample MC, 0.75mm thick	8ul
ME7-8-0.75	8 sample, 0.75mm thick	19ul
ME7-10-0.75	10 sample, 0.75mm thick	14ul
ME7-12MC-0.75	12 sample MC, 0.75mm thick	10ul
ME7-16-0.75	16 sample, 0.75mm thick	7ul

ME7-1-1	Prep 1, Marker 1, 1mm thick	203ul
ME7-2-1	Prep 2, Marker 2, 1mm thick	90ul
ME7-4-1	Prep 4, Marker 2, 1mm thick	48ul
ME7-8MC-1	8 sample MC, 1mm thick	11ul
ME7-8-1	8 sample, 1mm thick	25ul
ME7-10-1	10 sample, 1mm thick	18ul
ME7-12MC-1	12 sample MC, 1mm thick	14ul
ME7-16-1	16 sample, 1mm thick	10ul



Fast fix slot electrodes, no need rewiring

Cat. No.	Comb Description	Sample Volume
ME7-1-1.5	Prep 1, Marker 1, 1.5mm thick	304ul
ME7-2-1.5	Prep 2, Marker 2, 1.5mm thick	135ul
ME7-4-1.5	Prep 4, Marker 2, 1.5mm thick	72ul
ME7-8MC-1.5	8 sample MC, 1.5mm thick	17ul
ME7-8-1.5	8 sample, 1.5mm thick	37ul
ME7-10-1.5	10 sample, 1.5mm thick	27ul
ME7-12MC-1.5	12 sample MC, 1.5mm thick	20ul
ME7-16-1.5	16 sample, 1.5mm thick	15ul

ME7-1-2	Prep 1, Marker 1, 2mm thick	405ul
ME7-2-2	Prep 2, Marker 2, 2mm thick	180ul
ME7-4-2	Prep 4, Marker 2, 2mm thick	96ul
ME7-8MC-2	8 sample MC, 2mm thick	23ul
ME7-8-2	8 sample, 2mm thick	50ul
ME7-10-2	10 sample, 2mm thick	36ul
ME7-12MC-2	12 sample MC, 2mm thick	27ul
ME7-16-2	16 sample, 2mm thick	20ul



Complete package offers as standard

## For ME10-7-10

Cat. No.	Comb Description	Sample Volume
ME10-1-0.75	Prep 1, Marker 1, 0.75mm thick	270ul
ME10-2-0.75	Prep 2, Marker 2, 0.75mm thick	118ul
ME10-4-0.75	Prep 4, Marker 2, 0.75mm thick	57ul
ME10-8-0.75	8 sample, 0.75mm thick	30ul
ME10-10MC-0.75	10 sample MC, 0.75mm thick	20ul
ME10-12-0.75	12 sample, 0.75mm thick	17ul
ME10-16-0.75	16 sample, 0.75mm thick	12ul
ME10-20MC-0.75	20 sample MC, 0.75mm thick	10ul
ME10-25-0.75	25 sample, 0.75mm thick	7ul

ME10-1-1	Prep 1, Marker 1, 1mm thick	360ul
ME10-2-1	Prep 2, Marker 2, 1mm thick	158ul
ME10-4-1	Prep 4, Marker 2, 1mm thick	77ul
ME10-8-1	8 sample, 1mm thick	41ul
ME10-10MC-1	10 sample MC, 1mm thick	27ul
ME10-12-1	12 sample, 1mm thick	23ul
ME10-16-1	16 sample, 1mm thick	16ul
ME10-20MC-1	20 sample MC, 1mm thick	14ul
ME10-25-1	25 sample, 1mm thick	10ul

Cat. No.	Comb Description	Sample Volume
ME10-1-1.5	Prep 1, Marker 1, 1.5mm thick	540ul
ME10-2-1.5	Prep 2, Marker 2, 1.5mm thick	236ul
ME10-4-1.5	Prep 4, Marker 2, 1.5mm thick	115ul
ME10-8-1.5	8 sample, 1.5mm thick	61ul
ME10-10MC-1.5	10 sample MC, 1.5mm thick	41ul
ME10-12-1.5	12 sample, 1.5mm thick	34ul
ME10-16-1.5	16 sample, 1.5mm thick	24ul
ME10-20MC-1.5	20 sample MC, 1.5mm thick	20ul
ME10-25-1.5	25 sample, 1.5mm thick	15ul

ME10-1-2	Prep 1, Marker 1, 2mm thick	720ul
ME10-2-2	Prep 2, Marker 2, 2mm thick	315ul
ME10-4-2	Prep 4, Marker 2, 2mm thick	153ul
ME10-8-2	8 sample, 2mm thick	81ul
ME10-10MC-2	10 sample MC, 2mm thick	54ul
ME10-12-2	12 sample, 2mm thick	45ul
ME10-16-2	16 sample, 2mm thick	32ul
ME10-20MC-2	20 sample MC, 2mm thick	27ul
ME10-25-2	25 sample, 2mm thick	20ul

\*Sample volume (SV) = Sample volume for 5mm thick gel (ul)



## For ME15-7-10-15

Cat. No.	Comb Description	Sample Volume
ME15-1-0.75	Prep 1, Marker 1, 0.75mm thick	371ul
ME15-2-0.75	Prep 2, Marker 2, 0.75mm thick	169ul
ME15-4-0.75	Prep 4, Marker 2, 0.75mm thick	91ul
ME15-10-0.75	10 sample, 0.75mm thick	34ul
ME15-12-0.75	12 sample, 0.75mm thick	30ul
ME15-20-0.75	20 sample, 0.75mm thick	16ul
ME15-35-0.75	35 sample, 0.75mm thick	7ul
ME15-10MC-0.75	10 sample MC, 0.75mm thick	22ul
ME15-14MC-0.75	14 sample MC, 0.75mm thick	22ul
ME15-16MC-0.75	16 sample MC, 0.75mm thick	20ul
ME15-18MC-0.75	18 sample MC, 0.75mm thick	8ul
ME15-28MC-0.75	28 sample MC, 0.75mm thick	8ul
ME15-30MC-0.75	30 sample MC, 0.75mm thick	9ul

ME15-1-1	Prep 1, Marker 1, 1mm thick	495ul
ME15-2-1	Prep 2, Marker 2, 1mm thick	225ul
ME15-4-1	Prep 4, Marker 2, 1mm thick	122ul
ME15-10-1	10 sample, 1mm thick	45ul
ME15-12-1	12 sample, 1mm thick	41ul
ME15-20-1	20 sample, 1mm thick	21ul
ME15-35-1	35 sample, 1mm thick	10ul
ME15-10MC-1	10 sample MC, 1mm thick	29ul
ME15-14MC-1	14 sample MC, 1mm thick	29ul
ME15-16MC-1	16 sample MC, 1mm thick	27ul
ME15-18MC-1	18 sample MC, 1mm thick	11ul
ME15-28MC-1	28 sample MC, 1mm thick	11ul
ME15-30MC-1	30 sample MC, 1mm thick	13ul

Cat. No.	Comb Description	Sample Volume
ME15-1-1.5	Prep 1, Marker 1, 1.5mm thick	743ul
ME15-2-1.5	Prep 2, Marker 2, 1.5mm thick	338ul
ME15-4-1.5	Prep 4, Marker 2, 1.5mm thick	182ul
ME15-10-1.5	10 sample, 1.5mm thick	68ul
ME15-12-1.5	12 sample, 1.5mm thick	61ul
ME15-20-1.5	20 sample, 1.5mm thick	32ul
ME15-35-1.5	35 sample, 1.5mm thick	15ul
ME15-10MC-1.5	10 sample MC, 1.5mm thick	44ul
ME15-14MC-1.5	14 sample MC, 1.5mm thick	44ul
ME15-16MC-1.5	16 sample MC, 1.5mm thick	41ul
ME15-18MC-1.5	18 sample MC, 1.5mm thick	17ul
ME15-28MC-1.5	28 sample MC, 1.5mm thick	17ul
ME15-30MC-1.5	30 sample MC, 1.5mm thick	19ul

ME15-1-2	Prep 1, Marker 1, 2mm thick	990ul
ME15-2-2	Prep 2, Marker 2, 2mm thick	450ul
ME15-4-2	Prep 4, Marker 2, 2mm thick	243ul
ME15-10-2	10 sample, 2mm thick	90ul
ME15-12-2	12 sample, 2mm thick	81ul
ME15-20-2	20 sample, 2mm thick	43ul
ME15-35-2	35 sample, 2mm thick	20ul
ME15-10MC-2	10 sample MC, 2mm thick	59ul
ME15-14MC-2	14 sample MC, 2mm thick	59ul
ME15-16MC-2	16 sample MC, 2mm thick	54ul
ME15-18MC-2	18 sample MC, 2mm thick	23ul
ME15-28MC-2	28 sample MC, 2mm thick	23ul
ME15-30MC-2	30 sample MC, 2mm thick	25ul



Extensive range of combs  
 Black: 0.75mm for ultra resolved bands  
 White: 1mm supplied as standard  
 Red: 1.5mm for large sample volume  
 Blue: 2mm for large sample volume



MC = Multi-channel pipette compatible

\*Sample volume (SV) = Sample volume for 5mm thick gel (ul)

# Maxi Horizontal Gel Electrophoresis System

## ME20 series ME26-16-24-32

For ME20 series

Maxi is primarily designed for resolution of high numbers of samples as in cloning or PCR experiments. Maxi allows ultra high-resolution separations over extended runs. Tray sizes correspond to standard blotter sizes. It also allows for easy sample transfer onto a membrane for further analysis. Three tray sizes are available, 20x20cm, 20x25cm and 20x10cm. Multi-channel pipette compatible combs for up to 40 samples each facilitate speed loading of up to 440 samples per gel. 50 sample combs (not multi-channel pipette compatible) allow maximum sample capability of 550 samples per gel.

For ME26-16-24-32

Maxi-plus is designed for rapid screening of very large numbers of cloning or PCR samples, and it has the maximum capacity of 672 samples per gel. This allows loading and analysis of exactly seven 96 well format micro titer plates. The large gel run length of 32cm also allows resolution of samples over a long distance for separation of complex sample bands such as in restriction fragment analysis. Maxi-plus is available with a full length tray of 26x32cm or with two other tray length options of 26x16cm and 26x24cm so that user's exact requirements can be matched. In addition to options for single length gel trays, Maxi-plus is available with all three gel tray lengths to provide the maximum flexibility, versatility and value. Buffer recirculation ports are included as standard to allow enhanced resolution over extended runs, while loading guides enhance well visibility for easy sample loading.

### Features

- Low buffer consumption
- Multi-channel pipette compatibility
- Great indications for gel making and running
- No tape, clamps or springs needed

For ME20 series additional features

- Up to 450 samples per tray

For ME26-16-24-32 additional features

- Up to 672 samples per tray
- Three tray options available

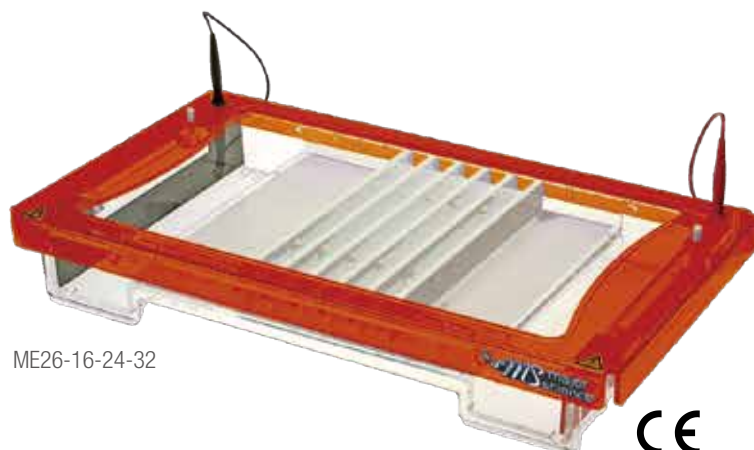


ME20 series

CE

ME20 series is offered as a complete system for the user to cast, and run electrophoresis, including:

- 1 x Electrophoresis tank & lid
- 1 x ME20-UV10 (20x10cm UV tray)
- 1 x ME20-UV20 (20x20cm UV tray)
- 1 x ME20-UV25 (20x25cm UV tray, for ME20-25 only)
- 2 x ME20-20MC-1 (20 sample combs, 1mm thick)
- 1 x ME20-UV DAM (UV tray dams, 2pcs)
- 1 x ME20-LG (Loading guides (Set))
- 1 x Black & red electrophoresis cable



ME26-16-24-32

CE

ME26-16-24-32 is offered as a complete system for the user to cast, and run electrophoresis, including:

- 1 x Electrophoresis tank & lid
- 1 x ME26-UV16 (26x16cm UV tray)
- 1 x ME26-UV24 (26x24cm UV tray)
- 1 x ME26-UV32 (26x32cm UV tray)
- 2 x ME26-28MC-1 (28 sample combs, 1mm thick)
- 1 x ME26-LG (Loading guides (Set))
- 1 x Black & red electrophoresis cable
- 1 x Flexi caster



All combs are multichannel pipette compatible



Loading guides allow easy well identification and sample loading

## Specification

Cat. No.	ME20-10-20	ME20-25	ME26-16-24-32
Dimension (WxLxH)	15.55"x9.05"x3.54" (395x230x90mm)		19.69"x11.02"x3.54" (500x280x90mm)
Gel dimension (WxL)	7.87"x3.94" (200x100mm), 7.87"x7.87" (200x200mm),	7.87"x9.84" (200x250mm)	10.24"x6.3" (260x160mm), 10.24"x9.45" (260x240mm), 10.24"x12.6" (260x320mm)
Maximum sample	200 for 7.87"x3.94" (200x100mm) Tray (4x50 sample combs) 450 for 7.87"x7.87" (200x200mm) Tray (9x50 sample combs)	550 for 7.87"x9.84" (200x250mm) Tray (11x50 sample combs)	336 for 10.24"x6.3" (260x160mm) Tray (6x56 sample combs) 504 for 10.24"x9.45" (260x240mm) Tray (9x56 sample combs) 672 for 10.24"x12.6" (260x320mm) Tray (12x56 sample combs)
Buffer volume	0.32gal (1200ml)		0.37gal (1400ml)
Material	Injection molded construction		N /A
	Durable, leak proof environment for complete safety and long life		N /A
Cassette type electrode	Inexpensive, easy to replace		
	Made of 99.99% corrosion resistant pure platinum		
Electrical safety	Lid can only be fastened in one way		
	Upon lid removal, power is disconnected from buffer chamber		
Rapid casting gel	Use casting dams		Use flexible caster

## Ordering Information

Cat. No.	Product Description
ME20-10-20	Maxi, 20x10 & 20x20cm UV tray, 2x20 sample combs
ME20-25	Maxi, 20x25cm UV tray, 2x20 sample combs
ME20-UV10	Maxi, 20x10cm UV tray
ME20-UV20	Maxi, 20x20cm UV tray
ME20-UV25	Maxi, 20x25cm UV tray
ME15/20-FC	Midi plus-2/Maxi, Flexicaster
ME20-UVS	20cm UV gel scoop

Cat. No.	Product Description
ME20-UV DAM	Maxi, UV tray dams ( 2 pcs )
ME26-16-24-32	Maxi-plus 26x16cm, 26x24cm, 26x32cm UV tray, 6x28 sample combs
ME26-UV16	Maxi plus, 26x16cm UV tray
ME26-UV24	Maxi plus, 26x24cm UV tray
ME26-UV32	Maxi plus, 26x32cm UV tray
ME26-FC	Flexible caster for gels up to 32cm. Casts 7, 10, 15,16, 20, 24 and 32cm long gels
ME26-UVS	26cm UV gel scoop

## Accessories

Cat. No	Comb Description	Sample Volume
ME20-1-0.75	Prep 1, Marker 1, 0.75mm thick	506ul
ME20-2-0.75	Prep 2, Marker 2, 0.75mm thick	236ul
ME20-4-0.75	Prep 4, Marker 2, 0.75mm thick	115ul
ME20-10-0.75	10 sample, 0.75mm thick	54ul
ME20-16-0.75	16 sample, 0.75mm thick	30ul
ME20-20MC-0.75	20 sample MC, 0.75mm thick	20ul
ME20-25-0.75	25 sample, 0.75mm thick	16ul
ME20-30-0.75	30 sample, 0.75mm thick	13ul
ME20-36-0.75	36 sample, 0.75mm thick	11ul
ME20-40MC-0.75	40 sample MC, 0.75mm thick	8ul
ME20-50-0.75	50 sample, 0.75mm thick	8ul

ME20-1-1	Prep 1, Marker 1, 1mm thick	675ul
ME20-2-1	Prep 2, Marker 2, 1mm thick	315ul
ME20-4-1	Prep 4, Marker 2, 1mm thick	153ul
ME20-10-1	10 sample, 1mm thick	72ul
ME20-16-1	16 sample, 1mm thick	41ul
ME20-20MC-1	20 sample MC, 1mm thick	27ul
ME20-25-1	25 sample, 1mm thick	21ul
ME20-30-1	30 sample, 1mm thick	17ul
ME20-36-1	36 sample, 1mm thick	14ul
ME20-40MC-1	40 sample MC, 1mm thick	11ul
ME20-50-1	50 sample, 1mm thick	10ul

ME20-1-1.5	Prep 1, Marker 1, 1.5mm thick	1013ul
ME20-2-1.5	Prep 2, Marker 2, 1.5mm thick	473ul
ME20-4-1.5	Prep 4, Marker 2, 1.5mm thick	230ul
ME20-10-1.5	10 sample, 1.5mm thick	108ul

Cat. No	Comb Description	Sample Volume
ME20-16-1.5	16 sample, 1.5mm thick	61ul
ME20-20MC-1.5	20 sample MC, 1.5mm thick	41ul
ME20-25-1.5	25 sample, 1.5mm thick	32ul
ME20-30-1.5	30 sample, 1.5mm thick	26ul
ME20-36-1.5	36 sample, 1.5mm thick	22ul
ME20-40MC-1.5	40 sample MC, 1.5mm thick	17ul
ME20-50-1.5	50 sample, 1.5mm thick	16ul

ME20-1-2	Prep 1, Marker 1, 2mm thick	1350ul
ME20-2-2	Prep 2, Marker 2, 2mm thick	630ul
ME20-4-2	Prep 4, Marker 2, 2mm thick	306ul
ME20-10-2	10 sample, 2mm thick	144ul
ME20-16-2	16 sample, 2mm thick	81ul
ME20-20MC-2	20 sample MC, 2mm thick	54ul
ME20-25-2	25 sample, 2mm thick	42ul
ME20-30-2	30 sample, 2mm thick	34ul
ME20-36-2	36 sample, 2mm thick	29ul
ME20-40MC-2	40 sample MC, 2mm thick	23ul
ME20-50-2	50 sample, 2mm thick	21ul

ME26-28MC-0.75	28 sample MC, 0.75mm thick	25ul
ME26-56MC-0.75	56 sample MC, 0.75mm thick	10ul
ME26-28MC-1	28 sample MC, 1mm thick	34ul
ME26-56MC-1	56 sample MC, 1mm thick	14ul
ME26-28MC-1.5	28 sample MC, 1.5mm thick	51ul
ME26-56MC-1.5	56 sample MC, 1.5mm thick	20ul
ME26-28MC-2	28 sample MC, 2mm thick	68ul
ME26-56MC-2	56 sample MC, 2mm thick	27ul

# Midi96 plus-1 & Super plus Gel System

## ME-96 series

### ME-Level4

The Midi96 plus-1 Gel System is ideal for high throughput electrophoresis of PCR products or samples containing a small number of DNA bands. Its 10x12cm (WxL) gel dimension and 96-well comb block format correspond to the standard microplate configuration, with additional lanes for markers. Two different types of comb are available: one which has 8 wells and one additional lane for DNA markers and one which has 8 wells and 2 additional lanes for markers. The offset layout of the wells allows a maximum run length of 1.8cm per well, resulting in improved separation. Midi96 plus-1 can accommodate samples from a 96-well plate – samples can be loaded directly using 8-channel pipettes. As with all ME series units, leak-proof casting is simplified using the supplied casting dams while their ultra-compact size minimises buffer usage and bench space requirements. Midi96 plus-1 Stretch Systems are also available for those users requiring an extended run length per well of up to 3.6cm.

The ME-Level4 is a compact system capable of running a maximum 1200 samples simultaneously by stacking up to 4 horizontal gels. This achieves high sample throughput while maintaining the time- and space-saving advantages of a small, compact unit.

Each Super plus Gel System is supplied with 4 gel trays and 8 combs as standard, while additional trays and combs may be purchased as required. Two double-sided comb and three tray length formats are also available. An optional flexi caster, either supplied separately or as a package with the Super plus Gel System, is also available that allows up to four 8x6, 8x12 and 8x18cm gel trays to be cast simultaneously outside the tank.

#### For ME-96 series Features

- Designed for loading of DNA samples from multi-well plates
- Ideal for analysis of up to 96 PCR-fragment length polymorphisms loaded from 96-well microplates or thermal cycler blocks
- Average run-time is just 15 to 30 minutes
- Direct microplate format for easy lane identification
- Multichannel pipette compatible combs for speed loading

#### For ME-Level4 Features

- Separates a maximum 1200 samples in as little as 15 minutes in 4 stacked horizontal gel trays
- Multichannel-compatible combs and gel plate configurations compatible with microplates and thermal cycler blocks ensure rapid loading of DNA minipreps and PCR products by 8-channel pipette
- Double-sided 1.5-mm-thick combs allow more sample volume to be loaded into each well
- Three gel tray options available in 8x6, 8x12 and 8x18cm (WxL) sizes for maximum flexibility
- Small footprint area reduces uptake of bench space within the laboratory
- Ideal for rapid checking of large numbers of samples from PCR and cloning



ME-96 series

CE



Ideal for 96-well microplates or thermal cycler blocks



ME-Level4

CE



Capable of running a maximum 1200 samples by stacking up to 4 horizontal gel trays



## Specification

Cat. No.	ME-96	ME-96ST	ME-Level4
Gel dimension (WxL)	3.94"x4.72" (100x120mm)	3.94"x9.45" (100x240mm)	3.15"x2.36" (80x60mm)(Option) 3.15"x4.72" (80x120mm)(Option) 3.15"x7.09" (80x180mm)
Dimension (WxLxH)	8.66"x4.92"x3.54" (220x125x90mm)	18.31"x4.92"x3.15" (465x125x80mm)	13.78"x4.33"x6.3" (350x110x160mm)
Buffer volume	0.08gal (300ml)	0.18gal (700ml)	200, 400, 600 or 800ml for 1,2,3 or 4 gel trays respectively
Max. sample capacity Per 180mm tray	96 samples plus 1 or 2 marker lanes		With 10mm run length: 306
			With 20mm run length: 144
			With 30mm run length: 72
No. of samples	8 + 1 x Marker, or 8 + 2 x Markers		1, 8, 12, 18 duocombs
Comb thickness	0.04" or 0.06" (1 or 1.5mm)		

## Ordering Information

Cat. No.	Product Description
ME-96	Midi 96 plus-1, UV tray, comb block with 12x8 sample, 1mm thick combs, casting dams
ME-961.5	Midi 96 plus-1, UV tray, comb block with 12x8 sample, 1.5mm thick combs, casting dams. combs have one marker lane.
ME-96/2M	Midi 96 plus-1, UV tray, comb block with 12x8 sample, 1mm thick combs, casting dams. combs have two marker lanes.
ME-96/1.5/2M	Midi 96 plus-1, UV tray, comb block with 12x8 sample, 1.5mm thick combs, casting dams. combs have two marker lanes.
ME-96ST	Midi 96 plus-2, UV tray, comb block with 12x8 sample, 1mm thick combs, casting dams
ME-96ST1.5	Midi 96 plus-2, UV tray, comb block with 12x8 sample, 1.5mm thick combs, casting dams. combs have one marker lane.
ME-96ST/2M	Midi 96 plus-2, UV tray, comb block with 12x8 sample, 1mm thick combs, casting dams. combs have two marker lanes.
ME-96ST/1.5/2M	Midi 96 plus-2, UV tray, comb block with 12x8 sample, 1.5mm thick combs, casting dams. combs have two marker lanes.
ME-Level4	Super plus, multi-level gel chamber, includes 4x18cm UV trays, 8 x18/8 sample 1.5mm combs
ME-Level4/EXCAS	Super plus, as above but with external caster for 4 gels

## Accessories

Cat. No.	Product Description
ME-96-8-1-CB	Midi96 plus-1 Comb 8 sample MC+1 Marker, 1mm thick comb block
ME-96-8-1.5-CB	Midi96 plus-1 Comb 8 sample MC+1 Marker, 1.5mm thick comb block
ME-96-8-1/2M-CB	Midi96 plus-1 Comb 8 sample MC+2 Markers, 1mm thick comb block
ME-96-8-1.5/2M-CB	Midi96 plus-1 Comb 8 sample MC+2 Markers, 1.5mm thick comb block
ME-96ST-8-1-CB	Midi96 plus-2 Comb 8 sample MC+1 Marker, 1mm thick comb block
ME-96ST-8-1.5-CB	Midi96 plus-2 Comb 8 sample MC+1 Marker, 1.5mm thick comb block
ME-96ST-8-1/2M-CB	Midi96 plus-2 Comb 8 sample MC+2 Markers, 1mm thick comb block
ME-96ST-8-1.5/2M-CB	Midi96 plus-2 Comb 8 sample MC+2 Markers, 1.5mm thick comb block
ME-96-8-1	Midi96 plus-1 Comb 8 sample MC, 1mm thick. one Marker lane
ME-96-8-1.5	Midi96 plus-1 Comb 8 sample MC, 1.5mm thick. one Marker lane
ME-96-8-1/2M	Midi96 plus-1 Comb 8 sample MC, 1mm thick. two Marker lanes
ME-96-8-1.5/2M	Midi96 plus-1 Comb 8 sample MC, 1.5mm thick. two Marker lanes
ME10-UV96	Midi plus-1, 96 well tray
ME10-UV96ST	Midi plus-1 STRETCH, 96 well tray
ME-L4-UV6	8x6cm tray
ME-L4-UV12	8x12cm tray
ME-L4-UV18	8x18cm tray
ME-L4-EXCASTER	External caster for ME-Level4 (4 Trays)
ME-L4-12/1-1	12/1 sample 1mm combs
ME-L4-18/8-1	18/8 sample 1mm combs
ME-L4-12/1-1.5	12/1 sample 1.5mm combs
ME-L4-18/8-1.5	18/8 sample 1.5mm combs

# Mini Vertical Gel Electrophoresis Apparatus

## MV-10DSYS

Mini Vertical is an injection molded vertical electrophoresis system providing a leak-proof environment and safe operation. Its vertical tank is designed for blotting compatibly. The dual 10x10cm plate is the most popular application and it is capable of handling up to 4 plates. In addition, packages with Mini 300V Power supply is ideally offered to individuals in the laboratory at a competitive and acceptable pricing to avoid time waiting for basic instruments and to accelerate experimental progress. Simple rapid and leak-proof gel casting.



1  
Insert glass plates and slide gates to create efficient seal.



2  
Transfer to casting base and tighten cams.



3  
It is best to turn the cams in opposite directions to each other.



4  
Pour gel solution, insert combs and allow gel to polymerize.



5  
Transfer to tank, fill with buffer and run.

### Features

- Low buffer consumption
- Single molded tank
- Up to 4 gels run at one time
- Great indications for gel making and running
- Ice cooling pack
- Easy gel casting and no gel leakage
- Competitive pricing
- Compatible with all precast gels (10x10cm or 10x8cm)



MV-10DSYS



This product is offered as a complete system for the user to cast, and run electrophoresis. including:

- 1 x Electrophoresis tank & lid & inner running module
- 1 x MV-10NG (10x10cm notched glass plates, 2mm thick, pk/2)
- 1 x MV-10PGS1 (10x10cm plain glass plates with 1mm bonded spacers, pk/2)
- 1 x MV-10DP (dummy plate)
- 2 x MV-10-12-1 (12 sample combs, 1mm thick)
- 1 x MV-10DCAST (10x10cm casting base)
- 1 x MV 10ICB (mini cooling pack)
- 1 x MS-DAG-GT01 (silicone water repellent spray 5ml)
- 1 x Black & red electrophoresis cable



Extensive range of combs

Black: 0.75mm for ultra resolved bands

White: 1mm supplied as standard

Red: 1.5mm for large sample volume

Blue: 2mm for large sample volume



MC = Multi-channel pipette compatible



Run up to 4 gels at one time



MV10-Mini300

**Electrophoresis System**

## Specification

Cat. No.	MV-10DSYS
Dimension (WxLxH)	7.48"x5.12"x5.91" (190x130x150mm)
Plate dimension (WxL)	3.94" 3.94" (100x100mm)
Gel dimension (WxL)	3.35"x3.15" (85x80mm)
Maximum sample	80 samples, 20 samples per gel
Buffer volume	0.07gal -0.32gal (250 -1200ml)
Ice cooling pack	Yes

Cat. No.	MV-10DSYS
Dummy plate and casting base	Yes
Material	Injection molded construction
	Durable, leak proof environment for complete safety and long life
Electrical safety	Lid can be fastened in only one way
	Upon lid removal, power is disconnected from buffer chamber
Rapid casting gel	Use gel maker stand

## Ordering Information

Cat. No.	Product Description
MV-10DSYS	Complete Mini Vertical Gel Electrophoresis Apparatus
	Mini 10x10cm Dual, 2 sets of glass plates with 1mm thick bonded spacers
	2x12 sample, 1mm thick combs, cooling pack, dummy plate and casting base
MV10-Mini300	Package of MV-10DSYS and Mini-300
MV10EXCASTER	External Casting Upstand - no casting base
MV-10DCAST	10x10cm casting base
MV-10DCASTM	Replacement Silicone Mat for 10x10cm casting base
MV-10DIRM	Inner running module
MV-10ICB	Mini cooling pack
MV-10PG	10x10cm plain glass plates, 2mm thick (pk/2)
MV-10PGS0.75	10x10cm plain glass plates with 0.75mm bonded spacers (pk/2)
MV-10PGS1	10x10cm plain glass plates with 1mm bonded spacers (pk/2)
MV-10PGS1.5	10x10cm plain glass plates with 1.5mm bonded spacers (pk/2)
MV-10PGS2	10x10cm plain glass plates with 2mm bonded spacers (pk/2)
MV-10NG	10x10cm notched glass plates, 2mm thick (pk/2)
MV-10NGS0.75	10x10cm notched glass plates with 0.75mm bonded spacers (pk/2)
MV-10NGS1	10x10cm notched glass plates with 1mm bonded spacers (pk/2)
MV-10NGS1.5	10x10cm notched glass plates with 1.5mm bonded spacers (pk/2)
MV-10NGS2	10x10cm notched glass plates with 2mm bonded spacers (pk/2)
MV-10DP	dummy plate, 10x10cm
MV-10S0.75	10cm spacers - 0.75mm (pk/2)
MV-10S1	10cm spacers - 1mm (pk/2)
MV-10S1.5	10cm spacers - 1.5mm (pk/2)
MV-10S2	10cm spacers - 2mm (pk/2)



MV10EXCASTER

## Accessories

Cat. No	Product Description	SV
MV-10-1-0.75	Comb 1 Prep, 1 Marker, 0.75mm thick	500ul
MV-10-5-0.75	Comb 5 sample, 0.75mm thick	70ul
MV-10-8MC-0.75	Comb 8 sample MC, 0.75mm thick	40ul
MV-10-9-0.75	Comb 9 sample, 0.75mm thick	35ul
MV-10-10-0.75	Comb 10 sample, 0.75mm thick	30ul
MV-10-12-0.75	Comb 12 sample MC, 0.75mm thick	25ul
MV-10-16MC-0.75	Comb 16 sample MC, 0.75mm thick	20ul
MV-10-20-0.75	Comb 20 sample, 0.75mm thick	15ul

MV-10-1-1	Comb 1 Prep, 1 Marker, 1mm thick	650ul
MV-10-5-1	Comb 5 sample, 1mm thick	100ul
MV-10-8MC-1	Comb 8 sample MC, 1mm thick	60ul
MV-10-9-1	Comb 9 sample, 1mm thick	50ul
MV-10-10-1	Comb 10 sample, 1mm thick	40ul
MV-10-12-1	Comb 12 sample, 1mm thick	35ul
MV-10-16MC-1	Comb 16 sample MC, 1mm thick	25ul
MV-10-20-1	Comb 20 sample, 1mm thick	20ul

MC = Multi-channel pipette compatible

Cat. No	Product Description	SV
MV-10-1-1.5	Comb 1 Prep, 1 Marker, 1.5mm thick	1000ul
MV-10-5-1.5	Comb 5 sample, 1.5mm thick	140ul
MV-10-8MC-1.5	Comb 8 sample MC, 1.5mm thick	80ul
MV-10-9-1.5	Comb 9 sample, 1.5mm thick	70ul
MV-10-10-1.5	Comb 10 sample, 1.5mm thick	30ul
MV-10-12-1.5	Comb 12 sample MC, 1.5mm thick	50ul
MV-10-16MC-1.5	Comb 16 sample MC, 1.5mm thick	40ul
MV-10-20-1.5	Comb 20 sample, 1.5mm thick	30ul

MV-10-1-2	Comb 1 Prep, 1 Marker, 2mm thick	1300ul
MV-10-5-2	Comb 5 sample, 2mm thick	200ul
MV-10-8MC-2	Comb 8 sample MC, 2mm thick	120ul
MV-10-9-2	Comb 9 sample, 2mm thick	100ul
MV-10-10-2	Comb 10 sample, 2mm thick	80ul
MV-10-12-2	Comb 12 sample, 2mm thick	70ul
MV-10-16MC-2	Comb 16 sample MC, 2mm thick	50ul
MV-10-20-2	Comb 20 sample, 2mm thick	40ul

SV = Sample volume for 5mm thick gel (ul)

# Mini Wide / Maxi Plus Vertical Gel Electrophoresis Apparatus

## MV-10WDSYS

## MV-30DSYS

Mini Wide Vertical Electrophoresis System (MV-10WDSYS) with a gel width of 20cm effectively doubles the number of samples that can be resolved when compared to the Mini Vertical Electrophoresis System. This allows consistency of sample comparison on a single gel and is designed for those with greater than 20 samples to compare and resolve. Simple set up using ultra soft silicone seals guarantees trouble free glass plate loading and gel casting. Dual gaskets on the gel running insert along with notched and plain glass plates ensure leak proof gel running. Rapid set up cooling retains resolution in extended separations and also saves buffer volume without affecting run quality. 4mm thick glass plates reduce breakage and have bonded spaces for added convenience. A wide range of accessories are available to allow for many techniques to be performed using the same unit. Prep combs can be used to maximize sample loading and recovery.

The Maxi Plus Vertical Electrophoresis System (MV-30DSYS) is a large format vertical unit for running large quantities of samples at once. It is also designed as a convenient, large format vertical unit for second-dimension PAGE following first-dimension isoelectric focusing using the MIEF system.

### For MV-10WDSYS Features

- Offers the capacity of two mini gels on a single gel
- Rapid gel casting and loading
- Low buffer consumption
- Run up to 4 gels at one time
- Great indications for gel making and running
- Ice cooling pack
- Easy gel casting and no gel leakage
- Competitive pricing

### For MV-30DSYS Features

- Ideal for second-dimension electrophoresis
- Accepts IPG strips 24cm in length, the longest available commercially
- Rapid set-up cool packs enhance resolution, particularly during extended runs



MV-10WDSYS



This product is offered as a complete system for the user to cast, and run electrophoresis. It including:

- 1 x Electrophoresis tank & lid & inner running module
- 1 x MV-10WNG (20x10cm notched glass plates, 2mm thick, pk/2)
- 1 x MV-10WPGS1 (20x10cm plain glass plates with 1mm bonded spacers, pk/2)
- 1 x MV-10WDP (dummy plate)
- 2 x MV-20-24-1 (24 sample combs, 1mm thick)
- 1 x MV-20DCAST (20x10cm casting base)
- 1 x MV 20ICB (mini cooling pack)
- 1 x MS-DAG-GT01 (silicone water repellent spray 5ml)
- 1 x Black & red electrophoresis cable



Uses same combs as MV-20WAVESYS System



MV-30DSYS





## Specification

Cat. No.	MV-10WDSYS
Dimension (WxLxH)	10.24"x6.3"x6.3" (260x160x160mm)
Plate dimension (WxL)	7.87"x3.94" (200x100mm)
Gel dimension (WxL)	7.09"x3.15" (180x80mm)
Maximum sample	192 samples, 48 samples per gel
Buffer volume	0.16gal - 0.74gal (600 - 2800ml)
Ice cooling pack	Yes
Dummy plate and casting base	Yes
Electrical safety	Lid can be fastened in only one way Upon lid removal, power is disconnected from buffer chamber
Rapid casting gel	Use gel maker stand
Cat. No.	MV-30DSYS
Dimension (WxLxH)	14.17"x7.09"x12.99" (360x180x330mm)
Plate dimension (WxL)	11.81"x8.66" (300x220mm)
Gel dimension (WxL)	11.02"x7.87" (280x200mm)
Max. sample capacity	300 samples per run; 75 per gel
Buffer volume	0.48 - 2.22gal (1800 - 8400ml)
Comb options	
No. of teeth	1, 2, 4, 28 MC, 56 MC, 75
Thicknesses	0.25, 0.35, 0.5, 1, 1.5, 2mm

## Ordering Information

Cat. No.	Product Description
MV-10WDSYS	Mini Wide Vertical Gel Electrophoresis Apparatus
	Mini Wide 20x10cm Dual, 2 sets of glass plates with 1mm thick bonded spacer
	2x24 sample, 1mm thick combs, cooling pack, dummy plate and casting base
MV-20DCAST	Maxi casting base for MV-10WDSYS & MV-ZODSYS
MV-20DCASTM	Replacement rubber mat for 20x10cm casting base
MV-10WDIRM	Inner running module
MV-20ICB	Maxi cooling pack
MV-10WNG	20x10cm notched glass plates, 4mm thick (pk/2)
MV-10WPG	20x10cm plain glass plates, 4mm thick (pk/2)
MV-10WPGS0.75	20x10cm plain glass plates with 0.75mm bonded spacers (pk/2)
MV-10WPGS1	20x10cm plain glass plates with 1mm bonded spacers (pk/2)
MV-10WPGS1.5	20x10cm plain glass plates with 1.5mm bonded spacers (pk/2)
MV-10WPGS2	20x10cm plain glass plates with 2mm bonded spacers (pk/2)
MV-10WNGS0.75	20x10cm notched glass plates with 0.75mm bonded spacers (pk/2)
MV-10WNGS1	20x10cm notched glass plates with 1mm bonded spacers (pk/2)
MV-10WDP	Dummy plate, 20x10cm
MV-30DSYS	Maxi Plus Vertical Electrophoresis System with base unit

## Optional Combs \*For MV-10WDSYS optional combs, please refer to [P47](#)

Cat. No.	Product Description	Sample Volume
MV-30-1-1	Comb 1 Prep, 1 Marker, 1mm thick	2250ul
MV-30-2-1	Comb 2 samples, 1mm thick	1125ul
MV-30-4-1	Comb 4 samples, 1mm thick	550ul
MV-30-28MC-1	Comb 28 samples, 1mm thick MC compatible	80ul
MV-30-56MC-1	Comb 56 samples, 1mm thick MC compatible	40ul
MV-30-75-1	Comb 75 samples, 1mm thick	25ul
MV-30-1-1.5	Comb 1 Prep, 1 Marker, 1.5mm thick	3375ul
MV-30-2-1.5	Comb 2 samples, 1.5mm thick	1680ul
MV-30-4-1.5	Comb 4 samples, 1.5mm thick	825ul
MV-30-28MC-1.5	Comb 28 samples, 1.5mm thick MC compatible	120ul
MV-30-56MC-1.5	Comb 56 samples, 1.5mm thick MC compatible	60ul
MV-30-75-1.5	Comb 75 samples, 1.5mm thick	37ul

# Maxi WAVE Vertical Electrophoresis System

## MV-20WAVESYS

The Maxi WAVE Vertical Electrophoresis System is our latest product innovation for large-format vertical gel electrophoresis. Designed to perform a variety of separations, including first-and second-dimension SDS-PAGE, native, preparative, gradient and high-resolution nucleic acid electrophoresis, plus capillary tube gel IEF and electroblotting, the MV-20WAVESYS is one of the most versatile maxi vertical systems available.

By introducing innovative, new vertical screw-clamp technology within the PAGE insert only four screws are now necessary to secure as many 20x20 gels. This gives the MV20 WAVE system the elective advantage of a much faster set up speed compared to competitor products whose traditional clamping configurations require as many as 24 screws to secure just two glass plates. In addition, the WAVE's vertical screw-clamp configuration distributes pressure evenly along the height of the gel rather than in the center to eliminate plate bowing and gel compression, but still maintains a leak-proof seal during casting; while the ergonomic wave-like design of the PAGE insert aids both handling and set up.

### Features

- More gels — run 2 to 4 gels simultaneously
- Customize your system — for second-dimension runs with 18cm IPG strips and gels using the IEF conversion kit
- Utilize modular inserts — with the same universal tank and lid to extend the application of your standard WAVE unit to create a complete 2-D or blotting system.
- Vertical screw — clamps distribute pressure evenly along the height of the gel to prevent plate bowing and gel compression
- Glass plates compress gently against a flat, level gasket to prevent current leakage from the inner buffer chamber during electrophoresis
- Detachable inner cooling coil connects to the laboratory water supply or a recirculating chiller to provide uniform, smile-free electrophoresis, while allowing runs to be performed at higher voltage
- Deep gel tank with adequate clearance beneath the glass plates to allow a magnetic stirrer to maintain buffer recirculation and uniform pH
- Dual purpose PAGE insert eliminates time-consuming transfer of glass plates between separate casting and running modules
- Ground glass plates with bonded injection moulded spacers consistent with comb thickness ensure "clean" well formation, as well as the correct alignment for leak-free casting; also eliminate the need for easily mislaid and awkward to use spacer aligners
- Ultra-soft silicone mat within cam-caster compensates for glass plate misalignment to ensure leak-free casting
- Widest selection of combs allow separation of up to 192 samples
- Asymmetric lid design and color-coded screw pins in PAGE insert prevent polarity reversal



MV-20WAVESYS



WAVE Maxi Vertical Component parts

1. Lid and power cables
2. PAGE insert
3. Vertical screw-pin
4. Clamping bars
5. Glass plates
6. Inner buffer chamber
7. Gasket
8. Detachable cooling coil
9. Outer tank
10. Cam-pin caster
11. Ultra-soft casting mat
12. Combs

### Specification

Cat. No.	MV-20WAVESYS
Dimension (WxLxH)	Approx. 11.81"x7.08"x10.93" (300x180x270mm)
Plate dimension (WxL)	7.87"x7.87" (200x200mm)
Gel dimension (WxL)	6.3"x6.89" (160x175mm)
Maximum sample	192 samples, 48 samples per gel
Buffer volume	0.32-1.48gal (1200 - 5600ml)
Cooling method	Cooling coil
Dummy plate and casting base	Yes
Material	Injection molded construction Durable, leak proof environment for complete safety and long life
Electrical safety	Lid can only be fastened in one way On removal, power is disconnected from buffer chamber
Rapid casting gel	Use casting dams

## Ordering Information



Cat. No.	Product Description
MV-20WAVESYS	Complete Maxi WAVE Vertical Gel Electrophoresis Apparatus
	Maxi WAVE 20x20cm Dual, 2 sets of glass plates with 1mm thick bonded spacers
	2x24 sample, 1mm thick combs, cooling coil, dummy plate and casting base
MV-20WAVECAST	20x20cm dual casting base
MV-20WAVEDCASTM	Replacement Silicone Rubber Mat for 20x20cm casting base
MV-20WAVEDIRM	Inner PAGE Running Module
MV-20WAVE-CC	Detachable Cooling Coil
MV-20NG	20x20cm notched glass plates, 4mm thick (pk/2)
MV-20PG	20x20cm plain glass plates, 4mm thick (pk/2)
MV-20PGS0.75	20x20cm plain glass plates with 0.75mm bonded spacers (pk/2)
MV-20PGS1	20x20cm plain glass plates with 1mm bonded spacers (pk/2)
MV-20PGS1.5	20x20cm plain glass plates with 1.5mm bonded spacers (pk/2)
MV-20PGS2	20x20cm plain glass plates with 2mm bonded spacers (pk/2)
MV-20DP	Dummy plate, 20x20cm
MV-20S0.75	20cm spacers -0.75mm (pk/2)
MV-20S1	20cm spacers -1mm (pk/2)
MV-20S1.5	20cm spacers -1.5mm (pk/2)
MV-20S2	20cm spacers -2mm (pk/2)
MV-20WAVE-IEFKIT	IEF Conversion for 18cm IPG strips and tube gels, includes: 1 set of plain glass plates with bonded spacer, 0.6x20cm (WxH); and 2x2-D combs with one 3.5mm marker lane and one 18cm preparatory well

## Optional combs

SV = Sample volume for 5mm thick gel (ul)

Cat. No	Product Description	SV
MV-20-1-0.75	Comb 1 Prep, 1 Marker, 0.75mm thick	1100ul
MV-20-5-0.75	Comb 5 sample, 0.75mm thick	160ul
MV-20-10-0.75	Comb 10 sample, 0.75mm thick	80ul
MV-20-18MC-0.75	Comb 18 sample MC, 0.75mm thick	40ul
MV-20-24-0.75	Comb 24 sample, 0.75mm thick	30ul
MV-20-30-0.75	Comb 30 sample, 0.75mm thick	25ul
MV-20-36MC-0.75	Comb 36 sample MC, 0.75mm thick	20ul
MV-20-48-0.75	Comb 48 sample, 0.75mm thick	15ul
MV-20-1-1	Comb 1 Prep, 1 Marker, 1mm thick	1500ul
MV-20-5-1	Comb 5 sample, 1mm thick	200ul
MV-20-10-1	Comb 10 sample, 1mm thick	100ul
MV-20-18MC-1	Comb 18 sample MC, 1mm thick	50ul
MV-20-24-1	Comb 24 sample, 1mm thick	40ul
MV-20-30-1	Comb 30 sample, 1mm thick	35ul
MV-20-36MC-1	Comb 36 sample MC, 1mm thick	25ul
MV-20-48-1	Comb 48 sample, 1mm thick	20ul
MV-20-1-1.5	Comb 1 Prep, 1 Marker, 1.5mm thick	2200ul
MV-20-5-1.5	Comb 5 sample, 1.5mm thick	320ul
MV-20-10-1.5	Comb 10 sample, 1.5mm thick	160ul
MV-20-18MC-1.5	Comb 18 sample MC, 1.5mm thick	80ul
MV-20-24-1.5	Comb 24 sample, 1.5mm thick	60ul
MV-20-30-1.5	Comb 30 sample, 1.5mm thick	50ul
MV-20-36MC-1.5	Comb 36 sample MC, 1.5mm thick	40ul
MV-20-48-1.5	Comb 48 sample, 1.5mm thick	30ul
MV-20-1-2	Comb 1 Prep, 1 Marker, 2mm thick	3000ul
MV-20-5-2	Comb 5 sample, 2mm thick	400ul
MV-20-10-2	Comb 10 sample, 2mm thick	200ul
MV-20-18MC-2	Comb 18 sample MC, 2mm thick	100ul
MV-20-24-2	Comb 24 sample, 2mm thick	80ul
MV-20-30-2	Comb 30 sample, 2mm thick	70ul
MV-20-36MC-2	Comb 36 sample MC, 2mm thick	50ul
MV-20-48-2	Comb 48 sample, 2mm thick	40ul

# Complete Mini / Mini Wide / Maxi Electro Blot System

**MEBM10 / MEBM10W**

**MEBM20**

**MV-10CBS / MV-10WCBS**

**MV-20CBS**

Electro Blot Systems are primarily designed for wet electrophoresis of proteins, and offer a combination of increased capacity with economical features. Electro Blot Systems have increased capacity over standard systems. Up to five gel blot cassettes may be utilized at any time for Electro Blot Mini and Maxi, and up to three gel cassettes can be utilized for Electro Blot Mini Wide. This is especially useful in high throughput laboratories. A uniform electric field is provided by a high intensity coiled electrode and ensures uniform transfer across the blot surface. The cassette's open architecture that ensures the maximum blot area allows direct transfer of current. Its rigid construction that ensures contact between the gel and membrane is retained throughout the blot and an even pressure is maintained. These units are compatible with magnetic stirrers to aid heat dispersal and prevent pH drifts in the buffer due to incomplete buffer mixing. Each unit includes a cooling pack to further enhance transfer efficiency by removing excess heat. This also saves buffer for added economy.

The Complete Electrophoresis Systems include both modules for gel electrophoresis, electroblotting and accessories, to provide a complete Mini, Mini Wide or Maxi gel casting, running and electroblotting system. The electroblotting module includes three inter-locking cassettes and six fiber pads. A high intensity current is generated by coiled platinum electrodes. These features, in conjunction with the advanced cooling system allow for rapid electroblotting in as little as one hour.

## For MEBM series Features

- Ideal for wet electroblotting of proteins – Western Blotting
- Hinged cassettes for added convenience
- Accommodates gel thickness from 0.25 to 3mm

## For MV-CBS series Features

- Versatile: Interchangeable modules for slab gel and Electroblotting using a single universal buffer tank
- Hinged cassettes
- High intensity electrodes
- 3 or 4 blot capacity
- Rapid set-up cooling

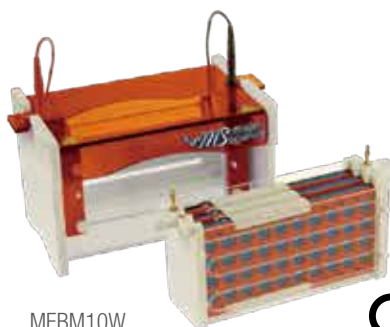
## Mini / Mini Wide /Maxi Electro Blot System



MEBM10



MEBM20



MEBM10W

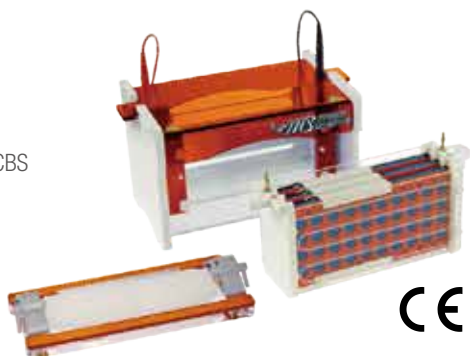


## Complete Mini / Mini Wide /Maxi Electro & Blot System

MV-10CBS



MV-10WCBS



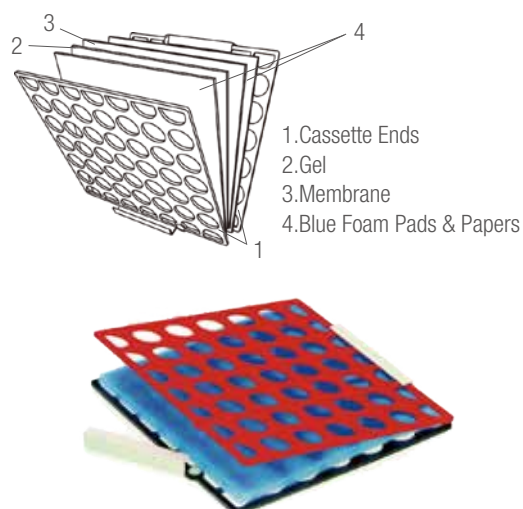
MV-20CBS





## Specification

Cat. No.	MEBM10	MEBM10W	MEBM20
Dimension (WxLxH)	7.48"x5.12"x7.48" (190x130x190mm)	10.24"x6.3"x6.3" (260x160x160mm)	9.45"x6.3"x10.24" (240x160x260mm)
Gel dimension (WxL)	3.94"x3.94" (100x100mm)	7.87"x 3.94" (200x100mm)	7.87"x7.87" (200x200mm)
Maximum sample	5 Blots, 100x100mm	3 Blots, 200x100mm	5 Blots, 200x200mm 20 Blots, 100x100mm
Accomodate gel thickness	0.25 - 3mm	0.25 - 3mm	0.25 - 3mm
Buffer volume	600 - 2800ml	1000 - 1500ml	4300 - 6000ml
Ice cooling pack	Yes		
Material	Durable, leak proof environment for complete safety and long life		
Electrical safety	Lid can only be fastened in one way On removal, power is disconnected from buffer chamber		
Cassette type	Hinged cassette		



Double hinged cassettes for added convenience

## Ordering Information

Cat. No.	Product Description
MEBM10	Electro Blot Mini, 10x10cm system for 5 cassettes, including 1 x tank and 1 x lid, 5 x cassettes, cooling pack and 12 x fiber pads
MEBM10W	Electro Blot Mini Wide, 20x10cm system for 3 cassettes, including 1 x tank and 1 x lid, 3 x cassettes, cooling pack and 6 x fiber pads
MEBM20	Electro Blot Maxi, 20x20cm system for 5 cassettes, including 1 x tank and 1 x lid, 5 x cassettes, cooling pack and 12 x fiber pads
MSB10C	Blot Mini cassette
MSB10WC	Blot Mini Wide cassette
MSB20C	Blot Maxi cassette
MSB10F	Fiber pads for Blot Mini - pack of 6
MSB10WF	Fiber pads for Blot Mini Wide - pack of 6
MSB20F	Fiber pads for Blot Maxi - pack of 6

MV-10CBS	Complete system for Mini Vertical Electrophoresis & Blotting, comprising:
	1x Mini Vertical unit, including:
	2x2mm thick notched glass plates
	2x2mm thick plain plates with 1mm thick bounded spacers, 1 x dummy plate
MV-10WCBS	2 x combs(1mm thick, 12 samples), 1 x casting base, silicone mat, cooling pack
	1 x Electroblotting module, including:
	1 x Internal electroblotting module
	4 x Compression cassette for gel size up to 100x100mm, 8 x fiber pads
MV-20CBS	Complete system for Mini Wide Vertical Electrophoresis & Blotting, comprising:
	1 x Mini Wide Vertical unit, including:
	2x4mm thick notched glass plates
	2x4mm thick plain plates with 1mm thick bounded spacers, 1 x dummy plate
MV-20CBF	2 x combs (1mm thick, 24 samples), 1 x casting base, silicone mat, cooling pack
	1 x Electroblotting module, including:
	1 x Internal electroblotting module
	3 x Compression cassette for gel size up to 200x100mm, 6 x fiber pads
MV-20CBF	Complete system for Maxi Vertical Electrophoresis & Blotting, comprising:
	1 x Maxi Vertical unit, including:
	2x4mm thick notched glass plates
	2x4mm thick plain plates with 1mm thick bounded spacers, 1 x dummy plate
MV-20CBF	2 x combs(1mm thick, 24 samples), 1 x casting base, silicone mat, cooling pack
	1 x Electroblotting module, including:
	1 x Internal electroblotting module
	3 x Compression cassette for gel size up to 200x200mm, 6 x fiber pads

# Semi Dry Mini and Semi Dry Midi

## MSD series

Semi Dry Mini offers rapid transfer times for DNA, RNA and protein blotting, typically 15 to 30 minutes. It can be used for all types of blotting, including Western, Southern and Northern blots. It features an uncomplicated buffer and set up procedure and is compatible with gel thickness from 0.25 up to 10mm. The unit is compatible with its respective vertical electrophoresis system. It only requires very low buffer volume, typically only a few milliliters of buffer per transfer. A screw down lid secures the blot sandwich and allows complete control of pressure ensuring even transfer. The electrodes, comprising of a platinum coated anode and stainless steel cathode, will exhibit practically no corrosion and provides many years of trouble free use. Uniform heat dispersion across the blot sandwich ensures stable transfer times and prevents heat induced sample loss or transfer distortions. It also allows viewing of the blot sandwich to ensure correct positioning and transfer is occurring correctly. Electrode plates are fully separated to prevent arcing or damage.



Semi Dry Mini and Semi Dry Midi

### Features

- Low buffer consumption
- Rapid transfer time
- Western, Southern and Northern blots
- Screw down lid – Gels from 0.25 up to 10mm thick
- Uniform heat dispersion
- Long life electrodes



MSD series



### Specification

Cat. No.	MSD10	MSD20
Dimension (WxLxH)	6.3"x6.3"x2.76" (160x160x70mm)	10.24"x10.24"x2.76" (260x260x70mm)
Gel dimension (WxL)	3.94"x3.94" (100x100mm)	7.87"x7.87" (200x200mm)
Maximum sample	1 Blot, 80x85mm	1 Blot, 160x175mm 2 Blots, 160x85mm 4 Blots, 80x85mm
Buffer volume	5ml	20ml
Accomodate gel thickness	0.25-10mm	
Economic transfer	Yes	
Material	Durable, leak proof environment for complete safety and long life	

Cat. No.	MSD33	MSD50
Dimension (WxLxH)	12.99"x17.72"x2.76" (330x450x70mm)	10.24"x22.05"x2.76" (260x560x70mm)
Gel dimension (WxL)	12.99"x17.72" (330x450mm)	7.87"x19.69" (200x500mm)
Maximum sample	1 Blot, 330x450mm 2 Blots, 260x200mm 5 Blots, 160x175mm 10 Blots, 160x85mm 20 Blots, 80x85mm	1 Blot, 200x500mm 2 Blots, 260x200mm 2 Blots, 160x175mm 6 Blots, 160x85mm 13 Blots, 80x85mm
Buffer volume	75ml	50ml
Accomodate gel thickness	0.25-10mm	
Economic transfer	Yes	
Material	Durable, leak proof environment for complete safety and long life	

### Ordering Information

Cat. No.	Product Description
MSD10	Semi Dry Mini, 10x10cm System
MSD20	Semi Dry Midi, 20x20cm System
MSD33	Semi Dry Midi Plus, 33x45cm System
MSD50	Semi Dry Midi Long, 20x50cm System

# Comet Assay Tanks

## MCOM series

The Comet Assay Tanks are available in four slide formats to study single cell gel electrophoresis (SCGE), a technique made popular by drug toxicology and carcinogenesis studies for the detection and quantitation of DNA damage in cells. Each tank's robust construction from ebony acrylic ensures that cells remain free of exposure to background light and DNA damage during electrophoresis, while a cooled central platform provides a convenient surface for slide preparation and control of slide temperature during the assay.



### Features

- For single cell gel electrophoresis
- Minimise exposure to light and reduce background DNA damage
- High efficiency cooling for enhanced resolution samples from PCR and cloning



MCOM series



### Specification

Cat. No.	MCOM10	MCOM20
Slide Capacity	10	20
Dimension ( WxLxH )	6.69"x13.39"x3.54" (170x340x90mm)	12.2"x13.39"x3.54" (310x340x90mm)
Volume	0.15gal (550ml)	0.26gal (1000ml)
Recommended running conditions	25V / 300mA for 1h	

Cat. No.	MCOM40	MCOM80
Slide Capacity	40	80
Dimension ( WxLxH )	12.99"x23.23"x3.54" (330x590x90mm)	13.39"x45.28"x3.54" (340x1150x90mm)
Volume	0.55gal (2100ml)	1.06gal (4000ml)
Recommended running conditions	25V / 300mA for 1h	

### Ordering Information

Cat. No.	Product Description
MCOM10	Comet Assay Tank for 10 Slides
MCOM20	Comet Assay Tank for 20 Slides
MCOM40	Comet Assay Tank for 40 Slides
MCOM80	Comet Assay Tank for 80 Slides



# Clinical Electrophoresis

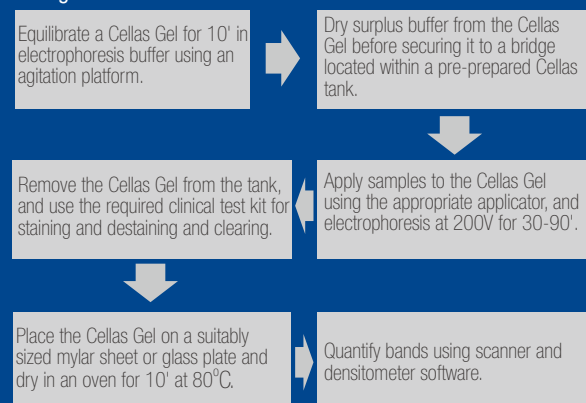
## Cellulose Acetate Electrophoresis

### ME-CELLAS

Cellulose Acetate Electrophoresis is an important technique in clinical diagnostics. This new range of cellulose acetate products offers a complete system solution for research and clinical cellulose acetate electrophoresis procedures. The Cellulose Acetate System is the ideal tank for both standard and wet cellulose acetate electrophoresis. This unit is designed for both routine and research requirements and is built to our high quality standard. The unit includes an adjustable support which enables easy and fast adjustment for different lengths of cellulose acetate strip.

Cellulose Acetate Gels – a new complete range of wet cellulose acetate gels is available. These have the advantage that they can be used for a wide variety of clinical electrophoresis applications including haemoglobin, serum proteins for monoclonal gammopathies, urine proteins, isoenzymes, lipo and glycoproteins.

#### Using Cellas Gel



Applicators : Variety of rapid sample applicators are available for a selection of applications:

- Two specimen applicator for semi micro samples on strips 250mm wide.
- Four specimen applicator for semi micro samples on strips 570mm wide.
- Four specimen applicator for Haemoglobin samples on strips 570mm wide.
- Six specimen applicator for samples on strips 570mm wide.

#### Features

- Compact high resolution systems for Clinical Electrophoresis
- Can accommodate cellulose acetate strips up to 24x20cm
- Complete range of cellulose acetate gels and kits
- Range includes densitometer, scanner and software
- Ideal for Clinical Electrophoresis Tests

Kits: Kits are available for multiple tests on serum proteins, haemoglobin, urine proteins and for immunofixation.

Bridges: Bridges are available in variety of formats for cellulose acetate sheets of dimension and for arched and horizontal Helena types of gels.



ME-CELLAS

#### Specification

Cat. No.	ME-CELLAS
Strip dimension ( WxL )	9.45"x7.87" (240x200mm) max.
Dimension ( WxL)	11.81"x11.81" (300x300mm)

#### Ordering Information

Cat. No.	Product Description
ME-CELLAS	Horizontal unit for Cellulose Acetate Electrophoresis

#### Accessories

Cat. No.	Product Description
ME-GEL2.514250	2.5x14cm, CellasGEL 250 micron, standard thickness, 100/pack
ME-GEL2.514200	2.5x14cm, CellasGEL 200 micron, standard thickness, 100/pack
ME-GEL2.514190	2.5x14cm, CellasGEL 190 micron, high resolution, 100/pack
ME-GEL5.714500	5.7x14cm, CellasGEL 500 micron, high volume, 25/pack
ME-GEL5.714250	5.7x14cm, CellasGEL 250 micron, standard thickness, 25/pack
ME-GEL5.714200	5.7x14cm, CellasGEL 200 micron, standard thickness, 25/pack
ME-GEL5.714190	5.7x14cm, CellasGEL 190 micron, high resolution, 25/pack

ME-APPS22	Applicator, 1x2-specimen semi-micro, for CellasGEL strip size 2.5x14cm
ME-APPS4SP	Applicator Semi-micro 4 for 0.9ul volume applied/ 9mm – First type
ME-APPS4	Applicator Semi-micro 4 for 1.2ul volume applied/ 9mm – First type
ME-APPS6	Applicator Semi-micro 6 for 0.7ul volume applied/ 7mm – First type
ME-APPM8	Applicator Micro 8 for CellasGEL
ME-APPM8M	Applicator Micro 8 for CellasGEL/Myl
ME-APPS18	Applicator Semi-micro 18 for CellasGEL sheets 18.3x14cm and 18.3x17cm
ME-APPS18M	Applicator Semi-micro 18 for CellasGEL/Myl sheets 19.85 x 7.6cm

ME-BDG8.5L	CSLBDG8.5L Bridge 8.5cm for CellasGEL sheets 18.3x14cm
ME-BDG11L	CSLBDG11L Bridge 11cm for CellasGEL sheets 17x17cm
ME-BDG8.5S	CSLBDG8.5S Bridge 8.5cm (standard size for CellasGEL kits) for CellasGEL strips 5.7x14cm or 2.5x14cm
ME-BDG14RS	CSLBDG14RS Bridge 14cm for CellasGEL RS Wedge 5x18.5cm
ME-BDG11S	CSLBDG11S Bridge 11cm for CellasGEL strips 5.7x17cm
ME-BDGA	CSLBDGA Bridge for in arched position electrophoresis
ME-BDGH	CSLBDGH Bridge for horizontal position electrophoresis Helena type
ME-DENS	TurboScan software densitometer (excludes computer and scanner)
ME-SCAN	Flatbed scanner for TurboScan software



# Dot and Slot Blotters

## MDHM series

## MSHM series

Four different sample number of hybridization manifolds are available: two types of dot blotters and two types of slot blotters. Typical applications include clone screening with DNA / RNA probes in Southern / Northern blots and immunological screening with antibodies in Western blots. Those units incorporate precision lapped surfaces to ensure uniform blotting membrane contact and a leak-proof gasket. These prevent lateral transfer of samples and smudging by ensuring that a complete vacuum is formed. Six thumbscrews ensure even and tight sealing for fastening samples. Dot blotters are available in 48 and 96 well versions and slot blotters in 24 and 48 well.



Easy assembly

### Features

- Low cost
- Simple construction
- Easy assembly
- Four sample configuration
- Alpha-numeric sample identification



MDHM-48



MDHM-96



### Specification

Cat. No.	MDHM-48	MDHM-96
Dimension (WxLxH)	2.36"x3.74"x3.94" (60x95x100mm)	2.36"x4.13"x5.51" (60x105x140mm)
Membrane size required	4.76"x1.73" (121x44mm)	4.33"x2.91" (110x74mm)
Configuration	3x16	8x12
Size of well	6mm diameter, 12mm deep	
Vacuum required	600mg Hg 0.8 BAR with cold trap	

Cat. No.	MSHM-24	MSHM-48
Dimension (WxLxH)	2.36"x2.91"x3.27" (60x74x83mm)	2.36"x3.74"x3.94" (60x95x100mm)
Membrane size required	4.76"x1.73" (121x44mm)	4.76"x1.73" (121x44mm)
Configuration	2x12	3x16
Size of well	6x0.5mm, 12mm deep	
Vacuum required	600mg Hg 0.8 BAR with cold trap	

### Ordering Information

Cat. No.	Product Description
MDHM-48	48-Well Dot Blot
MDHM-96	96-Well Dot Blot
MSHM-24	24-Well Slot Blot
MSHM-48	48-Well Slot Blot



Dot Blotter

Slot Blotter

# Denaturing Gradient Electrophoresis

## MV20-WAVE-DGGE

The MV-20-WAVE-DGGE is a complete system for DNA mutation analysis. It is fully equipped with temperature control unit, stirrer, and gradient mixer and casting accessories to perform specific mutation analysis applications. A powerful microprocessor controlled PID temperature control unit enables various mutation detection techniques to be undertaken between ambient temperature and 70°C, while the simple four screw design of the WAVE insert accelerates set up of denaturing PAGE gels. The flexibility provided by the modular design of the MV-20-WAVE-DGGE and its wide range of accessories enables laboratories to switch quickly and easily between different mutation detection techniques, thereby maximizing throughput and screening efficiency. A maximum 96-sample throughput allows detection of as many mutations within a couple hours, alleviating many of the bottlenecks associated with screening for DNA mutations.



MV20-WAVE-DGGE

### Features

- Maximum 96-sample throughput
- Large format – 20x20cm glass plates
- Use with 100ml gradient mixer to make two 1mm parallel denaturing gradient gels
- Compatible with microplates and thermal cycler blocks
- Ideal for detection of single base changes and polymorphisms in genomic cloned and amplified DNA fragments

### Specification

Cat. No.	MV20-WAVE-DGGE
WAVE electrophoresis insert and tank	
Max. number of gels	2 per run
Plate dimension (WxH)	7.87"x7.87" (200x200mm)
Active gel dimension (WxH)	6.3"x6.89" (160x175mm)
Thicknesses	0.75, 1, 1.5 and 2mm
Max. sample capacity	96 samples; 48 per gel
Standard combs	2x1mm 24-sample
Available combs	1, 5, 10, 18 MC, 24, 36 MC, 48; as per MV20WAVE and Maxi units
Max. buffer volume	2.25gal (8.5L)
Dimension (WxLxH)	15.94"x6.69"x1.73" (405x170x440mm)
Weight	Approx. 17.6lb (8kg)
Temperature control unit	
Temperature control	PID
Operating temperature range	Ambient - 100°C
Working temperature range (DGGE)	45-70°C
Buffer recirculation mechanism	Stirring
Temperature uniformity / stability at 37°C	±0.05 / 0.02°C
Setting / Display Resolution	0.1°C
Safety	Fluid-level float switch; isolated; IEC 1010/CE
Stored temperature values	4
Heater power at 230V/110VAC	1.4/1.3kW
Electrical power at 230V/100VAC	1.5/1.4kW (50-60Hz)
Recommended power supply MP-500V	
Rated Voltage	500V
Current	800mA
Power	300 W
Gradient mixer	
Total volume	100ml
Volume of reservoir & mixing chambers	50ml
Internal diameter of outlet port	2mm



### Ordering Information

Cat. No.	Product Description
MV20-WAVE-DGGE-110	Complete denaturing gradient gel electrophoresis system, 20x20cm; includes: temperature control unit, cam casting base, glass plates with 1mm bonded spacers, 2x24-sample combs and gradient mixer, 110V
MV20-WAVE-DGGE-220	Complete denaturing gradient gel electrophoresis system, 20x20cm; includes: temperature control unit, cam casting base, glass plates with 1mm bonded spacers, 2x24-sample combs and gradient mixer, 220V
MV20-WAVE-DGGETC-110	MV20-WAVE-DGGE-110 temperature control unit
MV20-WAVE-DGGETC-220	MV20-WAVE-DGGE-220 temperature control unit
MGM-100	Gradient mixer, 100ml

# Flatbed IEF System

## MIEF

The Flatbed IEF System has been designed to perform all flat bed IEF techniques, including wick-based electrophoresis with horizontal and hand-cast IEF gels, and focusing with IPG strips. The unit includes a large cooling platform which offers increased strip capacity and active gel area. Uniform cooling of the platform is achieved using a large ceramic plate that may be connected to any standard chiller via quick-fit connectors for enhanced gel or strip cooling. An optional rehydration tray is also available for overnight rehydration of up to twelve IPG strips before use.



### Specification

Cat. No.	MIEF
Max. strip length	9.45" (260mm)
Max. gel dimension	10.24"x10.24" (260x260mm)
Dimension	(WxLxH) 21.65"x13.78"x3.94" (550x350x100mm)

### Ordering Information

Cat. No.	Product Description
MIEF	Flatbed IEF system for IEF strips and gels
WCC-100	Winpact chiller for electrophoresis systems

### Features

- For IPG strip and IEF gel applications
- Large cooling platform area
- Pick and place easy to position electrodes
- Grid for accurate electrode alignment
- Rehydration tray also available



# Gradient Formers

## MGM series

Five different sizes of Gradient Former, 15, 25, 50, 100 and 500ml are available. The smaller sizes, 15ml and 25ml are ideal for the preparation of centrifugation gradient by using sucrose or cesium chloride solutions. The larger sizes, 50ml, 100ml, and 500ml are mainly used for the preparation of linear polyacrylamide gel gradients. The gradient formers are made from a single acrylic block, except for the 500ml gradient former, which is made from acrylic tubes. They all consist of two chambers, a reservoir and a mixing chamber, with an interconnecting valve. A second valve regulates the output flow from the mixing chamber, except MGM-500. A magnetic stirring bar is placed in the mixing chamber to maintain a constant gradient. All of the products have a flat base to be placed on a magnetic stirrer. They also have a support rod, which can be used to fix the gradient formers to a retort stand for extra stability.

### Features

- Low cost
- Simple construction
- Easy assembly
- Well gradient performance

# Cool Cube

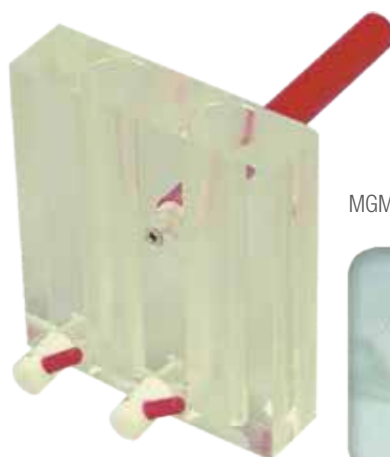
## MS-COOLCUBE

The Cool Cube is designed to help you store your precious samples safely on lab bench without worrying about the degradation caused by temperature increment. The Cool Cube maintains temperature at approximately 0 °C for up to four hours. Simply place the Cool Cube in a freezer overnight and it will be ready to use.

One side of the Cool Cube could be used for a convenient PCR workstation for 12 standard 1.5/2.0ml microtubes with one 96 well PCR plate, or with 12x0.2ml strips or 96x0.2ml tubes. The other side of the cube may be used to hold up to 36 standard 1.5/2.0ml microtubes.

### Features

- Maintains 0°C for up to 4 hours
- Holds both microtubes and a PCR plate
- Can be used as a PCR workstation



MGM series



Simple construction

### Ordering Information

Cat. No.	Product Description
MGM-15	For 15ml gradient former
MGM-25	For 25ml gradient former
MGM-50	For 50ml gradient former
MGM-100	For 100ml gradient former
MGM-500	For 500ml gradient former



MS-COOLCUBE



### Specification

Cat. No.	MS-COOLCUBE
Temperature	4°C for up to 4 hours
Capacity	36x1.5ml
	96x0.2ml
	12x0.2ml PCR strips
	1x96 well PCR plate
Dimension	(WxLxH) 5.59"x5.59"x2.5" (142x142x63.5mm)
Weight	1.98lb (900g)
Material	Durastar Polymer

### Ordering Information

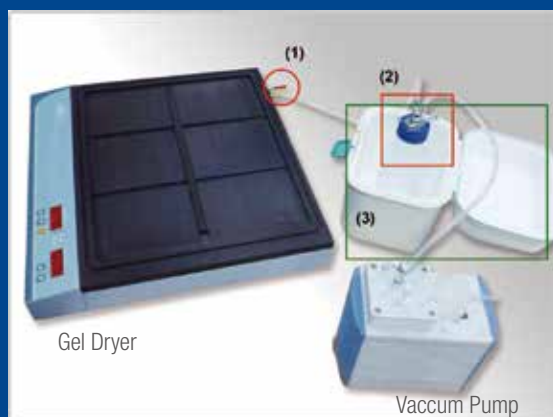
Cat. No.	Product Description
MS-COOLCUBE	Coolcube storage rack



# Midi Gel Dryer

## MG series

The microprocessor of the Midi Gel Dryer controls temperature from ambient +5°C to 90°C with a timer from 0 to 999 minutes to heat gels from the base plate while connected to a vacuum pump to remove the moisture and dry gels homogeneously. The surrounding groove design and sealing silicon rubber mask ensure optimal sealing when connecting to a vacuum pump.



1. Remember to turn the red valve on when start sucking from inlet port of vacuum pump.
2. Remember to prepare a vessel/bottle which has 2 ports for outlet and inlet to gather the fluid.
3. A container with some ice will help cooling down the temperature in the bottle. In addition, it also helps reducing the chemical odor.

\*All images are for reference only, actual products might differ from the pictures above.

\*Please visit our website at [www.majorsci.com](http://www.majorsci.com) for more product selection and detailed information.

\*Technical specification subject to change without notice.



2 digital LED displays

### Features

- Drying area (LxW): 8.27"x12.20" (210x310mm) or 13.78"x17.72" (350x450mm)
- Microprocessor for temperature control
- User temperature calibration
- Timer with alarm
- 2 digital LED displays



MG-2131



MG-3545



## Specification

Product name	MG-2131	MG-3545
Drying area (WxL)	12.20"x8.27" (310x210mm)	17.72"x13.78" (450x350mm)
Display	Two of 4 digital LED	
Control	Digital Microprocessor Controller	
Temperature control range	Ambient to 90°C	
Temperature increment	0.1°C	
Temperature uniformity at 37°C	within 0.2°C	
Temperature calibration	Yes	
Timer	9999 (min)	
Operating temperature	Ambient to 40°C	
Weight	Approx. 19.8lb (9.0kg)	Approx. 33.0lb (15.0kg)

## Ordering Information

Cat. No.	Product Description
MG-2131-110/220	Midi 21x31cm Gel Dryer
MG-3545-110/220	Midi 35x45cm Gel Dryer

## Accessories

Cat. No.	Product Description
MG-2131-MAT	Polythylene filter mat 21x31cm
MG-3545-MAT	Polythylene filter mat 35x45cm
MG-2131-SR	Silicon Rubber 27x37cm
MG-3545-SR	Silicon Rubber 41x53cm



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