

BlueLine Equipment

BlueMarine™ Horizontal Submarine Electrophoresis Units

The BlueMarine™ electrophoresis units are applied to separation of nucleic acids in agarose gels. Most common applications are rapid screening of PCR fragments, analysis of restriction digests and plasmid preparations, checking in vitro transcripts etc.

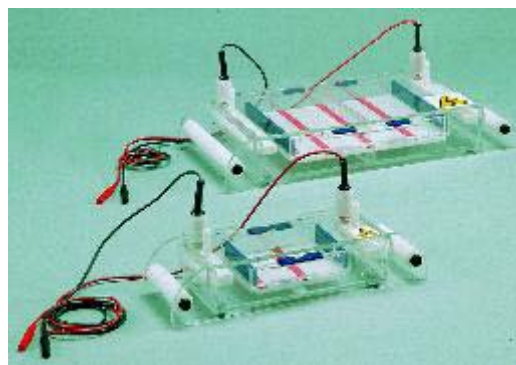
BlueMarine™ units are designed for safe and easy handling and feature a rugged, most durable acrylic construction. Doubly insulated cables are rated safe up to 3,000 volts. Gold plated electrical connectors are corrosion-free. The recessed power connectors are integrated into the safety lid. The platinum electrodes (0.2 mm diameter) are user replaceable. This design ensures a long-lasting unit for the day-to-day use.

Two different chamber sizes are available:

BlueMarine™ 100:	gel format 7 x 10 cm for quick analysis of up to 28 samples
BlueMarine™ 200:	gel formats 15 x 15 or 15 x 20 cm for best resolution or high throughput analysis
BlueMarine™ HTS	Gel format 17.5 x 19.2 cm for high resolution long runs of single samples or analysis

User-friendly design:

- Gels can be cast and run in the same tray (UV transparent) – easy to prepare, easy to start
- Gel casting gates – no taping, leak-free
- Blue sealing gaskets with improved fit – insert the gaskets and pour the gel, no extra sealing step required
- 2 - 4 comb positions – for parallel analysis of maximum sample numbers
- Red contrasting stripes on the white support plate at all comb positions – simplifies loading of the gel by better visibility of the wells
- External handles – facilitate to move around the closed unit safely even when filled
- Choice of combs – different thickness and number of wells, combs for multichannel-pipette-loading and preparative combs
- Compact, durable, ergonomic design



BM 100 (front), BM 200 (back)

Operational Data

	BM 100	BM 200 15 x 15 cm tray	BM 200 15 x 20 cm tray	BM HTS 17.5 x 19.2 cm
Maximum Operating Voltage (volts)	300	500	500	500
Maximum Operating Current (mAmps)	200	300	300	300
Approx. Gel Volume (5 mm gel thickness)	35 ml	115 ml	150 ml	160 ml
Possible comb positions	2	2	4	6
Maximum of loadable samples	28	62	124	102
Electrode Separation	18 cm	28.5 cm	28.5 cm	28.5 cm
Recommended Volts per cm	14 - 140	20 - 200	20 - 200	20 - 200

Ordering Information

BlueMarine™ 100	BM 100
Contains main unit and also: 1 removable UV transparent gel tray 7 x 10 cm	BM 100-2
2 gel casting gates	BM 100-3
1 comb (1.0 mm, 8 samples)	BM 100-8-1.0
BlueMarine™ 200	BM 200
Contains main unit and also: 1 removable UV transparent gel tray, 15 x 20 cm	BM 200-20
1 removable UV transparent gel tray, 15 x 15 cm	BM 200-15
2 gel casting gates	BM 200-3
2 combs (1.0 mm, 16 samples)	BM 200-16-1.0
BlueMarine™ HTS	BM HTS
Contains main unit and also: 1 removable UV transparent gel tray, 17.5 x 19.2 cm	inquire
2 aluminum gel casting garts	inquire
6 aluminum combs (17 samples)	inquire

Optional Accessories:
For BlueMarine™ 100 (Gel width 7 cm)*

	Cat.No.	Number of wells (mm)	Thickness of comb (mm)	Width of well (mm)	Depth of well (mm)	Sample Volume (µl)
Comb	BM 100-14-2.0	14	2.0	3.0	10	18
Comb	BM 100-14-1.5	14	1.5	3.0	10	14
Comb	BM 100-12-1.0	12	1.0	3.7	10	10
Comb	BM 100-12-1.5	12	1.5	3.7	10	17
Comb	BM 100-8-1.0	8	1.0	6.0	10	18
Comb	BM 100-8-1.5	8	1.5	6.0	10	28
Preparative comb	BM 100-P1-2.0	1	2.0	55.0	10	330
Gel tray, 7 x 10 cm	BM 100-2					
Casting gate, 2 pcs.	BM 100-3					
Replacement electrode	BM 100-RE					

For BlueMarine™ 200 (Gel width 15 cm)*

	Cat.No.	Number of wells	Thickness of comb (mm)	Width of well (mm)	Depth of well (mm)	Sample Volume (µl)
Comb	BM 200-10-1.0	10	1.0	12	10	35
Comb	BM 200-10-1.5	10	1.5	12	10	52
Comb	BM 200-10-2.0	10	2.0	12	10	70
Comb	BM 200-16-1.0	16	1.0	7	10	20
Comb	BM 200-16-1.5	16	1.5	7	10	30
Comb	BM 200-16-2.0	16	2.0	7	10	40
Comb	BM 200-20-1.0	20	1.0	5	10	15
Comb	BM 200-20-1.5	20	1.5	5	10	20
Comb	BM 200-20-2.0	20	2.0	5	10	25
Multichannel-pipette Comb	BM 200-M31-1.0	31	1.0	3	10	9
Multichannel-pipette Comb	BM 200-M26-1.0	26	1.0	4	10	12
Multichannel-pipette Comb	BM 200-M26-1.5	26	1.5	4	10	18
Multichannel-pipette Comb	BM 200-M26-2.0	26	2.0	4	10	24
Preparative Comb	BM 200-P2-1.0	1 + 2	1.0	125	10	375
Preparative Comb	BM 200-P2-2.0	1 + 2	2.0	125	10	750
Gel tray, 15 x 15 cm	BM 200-15					
Gel tray, 15 x 20 cm	BM 200-20					
Casting gates, 2 pcs.	BM 200-3					
Replacement electrode	BM 200-RE					

* Indicated are the maximum sample volumes applicable to a 5 mm thick agarose gel in which the actual depth of a sample well is 3.5 mm.