

**GALILEO**  
bioscience

**integrated electrophoresis systems**



vertical



horizontal

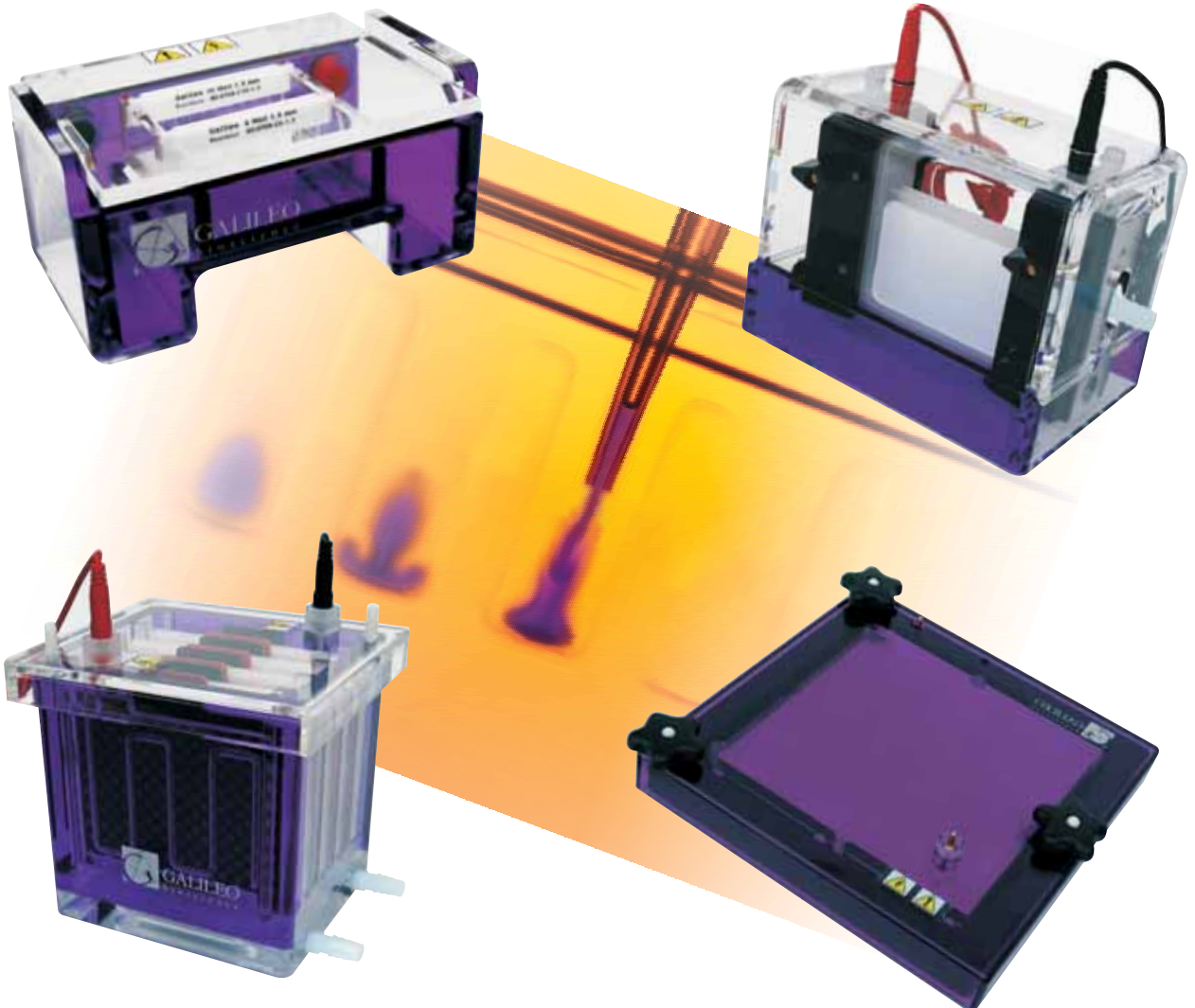


dry blot



tank blot

# *Integrated Electrophoresis and Blotting Systems*



- galileo bioscience - integrated electrophoresis and blotting systems -

# Welcome to Galileo Bioscience

Dear Friend in research,

Thank you very much for taking the time to look through this Galileo Bioscience catalog.

As you peruse these pages you will notice that Galileo manufactures all the tools you need to make your electrophoresis research and testing more productive and much easier than ever. We are constantly exploring ways to make our products more user-friendly, and it is the feedback from researchers like you that has helped us to make the finest life science and electrophoresis research tools in the marketplace.

Our systems feature innovations like extra-wide systems for increased sample capacity and throughput, microtiter format combs for quick sample loading, and a wide range of casting methods and optional casting accessories for improved gel handling.

Our requirements for quality materials and meticulous manufacturing methods ensure you of precise repeatable results, and years of flawless performance in even the most demanding laboratory conditions.

We are very proud of our work, we stand resolutely behind our products, and we look forward to becoming your supplier of choice for integrated electrophoresis and blotting systems.

Once again, thank you very much for your consideration.

Sincerely,  
Your friends at Galileo Bioscience



**GALILEO**  
bioscience

**integrated electrophoresis systems**



## Horizontal Gel Systems

### High Performance

Exceptional resolution.  
Platinum electrodes configured to provide uniform field for straight runs.  
Multiple comb slot options for a wide range of sample and run-length configurations.



### Three size ranges to fit your needs:

Unit Type	Mini	Midi	Maxi
Gel width (cm)	7-12	15-23	15-23
Gel run length (cm)	8-14	14-15	25-100
Max full run samples	12-25	40-50	40-50
Maximum samples	24-100	160-200	160-600
Comb slots	2-4	4	4-12
Casting System	RapidCast	ExpressCast	ExpressCast

### Convenient & Versatile

UV transmissible gel trays with built-in fluorescent rulers.  
Machined finger grooves on the tray sides for easy and sure handling.  
Wide range of comb configurations, including multi-channel capability.  
Selected units available with buffer recirculation capabilities.  
Combs specifications clearly marked on each comb.  
Advanced casting systems for flexibility, convenience and speed.

### Safe & Reliable

High quality 9mm thick rugged acrylic construction, resists cracking and warping.  
Your safety ensured with interlocking lid, protected sockets and permanently attached power cords.  
Epoxy sealed electrode connections, resist corrosion and leaks.  
Gold plated banana plugs.  
Meets or exceeds IEC1010-1 standards.

# Galileo Horizontal Systems Technology

## RapidCast™ gel casting technology



RapidCast™ Technology uses trays with incorporated end gaskets, to easily cast gels in the gel unit base.

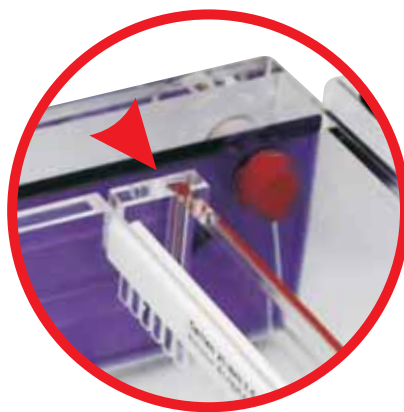
Turn tray crossways in the gel base to seal and pour.

Align with the platform to run.

No tape! No Leaks!

Fast & Efficient.

## ExpressCast™ gel casting technology



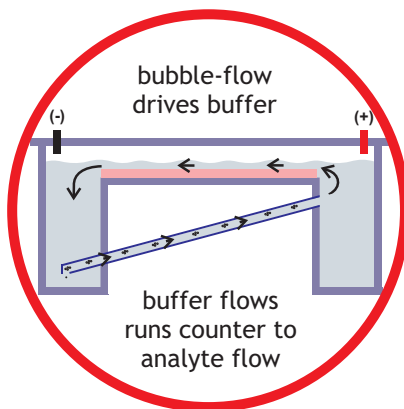
ExpressCast™ trays include end slots into which fit gasketed end gates, for easy in-tray gel casting.

Fit end gates into trays for a quick and leak-proof seal.

No tape! No Leaks!

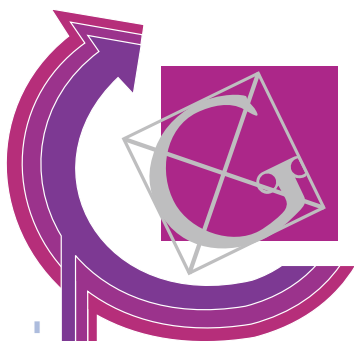
Fast & Efficient

## Integrated buffer recirculation (available on selected units)



Galileo automatic buffer recirculation reduces detrimental ion and pH gradients in your buffer, providing even migration for long running gels.

Hydrogen bubbles created at the cathode carry buffer along a canted recirculation tube, providing a gentle, reliable and self-contained recirculation system that is self-regulating and requires no additional tubing or equipment.



**GALILEO**  
bioscience

**integrated electrophoresis systems**



## Mini Horizontal Systems

Galileo mini gel systems are ideal for quick resolution of analytes from PCR, RE digestion, ligation and other common laboratory reactions.



### RapidCast™ Mini-Gel Systems Feature:

Buffer chamber with color coded, sealed platinum electrodes and non-slip rubber feet. UV transmissible gel tray with long-life silicone gaskets, built-in fluorescent ruler and 2-4 comb slots. Safety cover with attached retractable-sheathed power cords. Systems include 2 combs of your choice. Wide range of other combs and accessories available.

### Three sizes to fit your needs:

Unit	80-0708	80-0911	80-1214 <sup>1</sup>
Gel width (cm)	7	9	12
Gel run length (cm)	8	11	14
Max full run samples	12	18	25
Maximum samples	24	36	100
Comb slots	2	2	4

<sup>1</sup> available with automatic integrated buffer recirculation.

### RapidCast™ gel casting technology:

RapidCast™ Technology uses trays with incorporated end gaskets, to easily cast gels in the gel unit base. Quick! No tape!

### Integrated buffer recirculation:

Select units now available with integrated automatic buffer recirculation. No external tubing or pumps required!

## Galileo Mini-Gel Systems

### High Performance

Exceptional resolution.

Platinum electrodes configured to provide uniform field for straight runs.

Multiple comb slot options for a wide range of sample and run-length configurations.

### Convenient & Versatile

UV transmissible gel trays with built-in fluorescent rulers.

Machined finger grooves on the tray sides for easy and sure handling.

Wide range of comb configurations, including multi-channel capability.

Selected units available with buffer recirculation capabilities.

Combs specifications clearly marked on each comb.

Optional casting methods for flexibility, convenience and speed.

### Safe & Reliable

High quality 9mm thick rugged acrylic construction, resists cracking and warping.

Your safety ensured with interlocking lid, protected sockets and permanently attached power cords.

Epoxy sealed electrode connections, resist corrosion and leaks.

Gold plated banana plugs.

Meets or exceeds IEC1010-1 standards.

### RapidCast™ gel casting technology for mini gel units



RapidCast™ Technology uses trays with incorporated end gaskets, to easily cast gels in the gel unit base.

Turn tray across gel platform to seal and pour.

Align with platform to run.

No tape! No Leaks!

Fast & Efficient.



Also available is the RapidCast™ gel casting frame which allows casting up to 3 gels at once, even while the mini-gel unit is in use.



#### integrated electrophoresis systems



## 80-0708 RapidCast™ Mini Gel Systems

The Galileo RapidCast™ 80-0708 is our smallest mini-gel system and is ideal for rapid restriction fragment and PCR amplicon analysis.



The 80-0708 system features Galileo's RapidCast™ casting system for tapeless casting in the buffer chamber base or in the optional casting frame.

Unit	80-0708	80-0708-BEP <sup>1</sup>
Gel width (cm)	7	7
Gel run length (cm)	8	8
Max full run samples	12	12
Maximum samples	24	24
Comb slots	2	2

<sup>1</sup> unit includes buffer recirculation ports for connection to external recirculation devices.

### RapidCast™ gel casting technology for mini gel units



RapidCast™ Technology uses trays with incorporated end gaskets, to easily cast gels in the gel unit base

Turn tray across gel platform  
to seal and pour  
Align with platform to run  
No tape! No Leaks!  
Fast & Efficient

# 80-0708 RapidCast™ Mini Gel Systems

- galileo bioscience - integrated electrophoresis and blotting systems - 1-877-481-9175 -

Systems	80-0708	RapidCast complete system, includes gasketed 7x8cm tray + 6&10 tooth combs
Combs	80-0708-C5-1.0	5 well comb for 0708, 1mm thick
	80-0708-C5-1.5	5 well comb for 0708, 1.5mm thick
	80-0708-C6-1.0	6 well comb for 0708, 1mm thick
	80-0708-C6-1.5	6 well comb for 0708, 1.5mm thick
	80-0708-C8-1.0	8 well comb for 0708, 1mm thick
	80-0708-C8-1.5	8 well comb for 0708, 1.5mm thick
	80-0708-C10-1.0	10 well comb for 0708, 1mm thick
	80-0708-C10-1.5	10 well comb for 0708, 1.5mm thick
	80-0708-C12-1.0	12 well comb for 0708, 1mm thick
	80-0708-C12-1.5	12 well comb for 0708, 1.5mm thick
Accessories	80-0708-CPREP	Prep comb with 2 teeth, 1.5mm thick
	80-0708-RCGT	RapidCast tray for 7x8cm gels, 2 comb slots
	80-0708-LGT	Flush-cut tray for 7x10cm gels, 2 comb slots
	80-0708-RCGC	RapidCast Gel Caster, holds 3 x 80-0708-RCGT
	80-0708-RCPK	RapidCast Gel Caster Pack, includes 3 x 80-0708-RCGT
	80-0708-GSK	RapidCast replacement tray gaskets, set of 2
	80-MADJ-CST	Mini Adjustable Horizontal Gel Caster

unit dimensions (cm)	12W x 17.6L x 9.5H
gel size (cm)	7W x 8L
buffer capacity	400ml
gel volume (0.5cm thick)	28ml
max sample capacity	24
max samples/full length run	12
electrode separation length	18cm
standard features	epoxy-sealed connections platinum electrodes non-slip feet
safety features	safety cover sheathed power leads
included tray	RapidCast UV transmissible fluorescent ruler 2 comb slots
included combs	1.5mm, 6 & 10 well *
options	optional buffer ports
running conditions	60 volts 5 volts/cm of electrode separation or 110V constant voltage (200V max voltage)



#### integrated electrophoresis systems



## 80-0911 RapidCast™ Mini Gel Systems

The Galileo RapidCast™ 80-0911 is a versatile mini-gel unit that offers a little more run length and capacity for restriction fragment and PCR amplicon analysis.



Two unit configurations are available: Both systems feature Galileo's RapidCast™ casting system for tapeless casting in the buffer chamber base or in Galileo's optional casting frame. The 80-0911-BEP unit includes buffer recirculation ports for connection to external buffer recirculation devices.

Unit	80-0911	80-0911-BEP <sup>1</sup>
Gel width (cm)	9	9
Gel run length (cm)	11	11
Max full run samples	18	18
Maximum samples	36	36
Comb slots	2	2

<sup>1</sup> unit includes buffer recirculation ports for connection to external recirculation devices.

### RapidCast™ gel casting technology for mini gel units



RapidCast™ Technology uses trays with incorporated end gaskets, to easily cast gels in the gel unit base

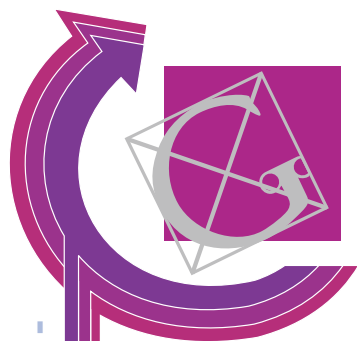
Turn tray across gel platform  
to seal and pour  
Align with platform to run  
No tape! No Leaks!  
Fast & Efficient

# 80-0911 RapidCast™ Mini Gel Systems

Systems	80-0911	RapidCast complete system, includes gasketed 9x11cm tray + 10&14 1.5mm tooth combs
	80-0911-BEP	80-0911 System, plus Buffer Exchange Ports
Combs	80-0911-C5-1.0	5 well comb for 0911, 1mm thick
	80-0911-C5-1.5	5 well comb for 0911, 1.5mm thick
	80-0911-C8-1.0	8 well comb for 0911, 1mm thick
	80-0911-C8-1.5	8 well comb for 0911, 1.5mm thick
	80-0911-CMT9-1.0	9 well comb for 0911, 1mm thick, Microtiter 1X format
	80-0911-CMT9-1.5	9 well comb for 0911, 1.5mm thick, Microtiter 1X format
	80-0911-C10-1.0	10 well comb for 0911, 1mm thick
	80-0911-C10-1.5	10 well comb for 0911, 1.5mm thick
	80-0911-C12-1.0	12 well comb for 0911, 1mm thick
	80-0911-C12-1.5	12 well comb for 0911, 1.5mm thick
	80-0911-C14-1.0	14 well comb for 0911, 1mm thick
	80-0911-C14-1.5	14 well comb for 0911, 1.5mm thick
	80-0911-CMT18-1.0	18 well comb for 0911, 1mm thick, Microtiter 2X format
	80-0911-CMT18-1.5	18 well comb for 0911, 1.5mm thick, Microtiter 2X format
	80-0911-CPREP	Prep comb with 2 teeth, 1.5mm thick
Accessories	80-0911-RCGT	RapidCast Gel Tray for 9x11cm gels
	80-0911-RCGC	RapidCast Gel Caster, holds 3 x 80-0911-RCGT
	80-0911-RCPK	RapidCast Gel Caster Pack, includes 3 x 80-0911-RCGT
	80-0911-GSK	RapidCast replacement tray gaskets, set of 2

unit dimensions (cm)	152W x 22L x 9.5H
gel size (cm)	9W x 11L
buffer capacity	600ml
gel volume (0.5cm thick)	50ml
max sample capacity	36
max samples/full length run	18
electrode separation length	19cm
standard features	epoxy-sealed connections platinum electrodes non-slip feet
safety features	safety cover sheathed power leads
included tray	RapidCast UV transmissible fluorescent ruler 2 comb slots
included combs	1.5mm, 10 & 14 well
options	optional buffer ports
running conditions	90 volts 5 volts/cm of electrode separation or 110V constant voltage (200V max voltage)

- galileo bioscience - integrated electrophoresis and blotting systems - 1-877-481-9175 -



**GALILEO**  
bioscience

**integrated electrophoresis systems**



## 80-1214 RapidCast™ Mini Gel Systems

The Galileo RapidCast™ 80-1214 is our most popular mini-gel unit. A combination of outstanding versatility and value make it an ideal personal gel device.



Three unit configurations are available including the new 80-1214-R which includes integrated automatic buffer recirculation for improved performance. Also available are the classic 80-1214 unit and the 80-1214-BEP device which includes buffer recirculation ports for connection to external buffer recirculation devices. All three systems feature Galileo's RapidCast™ casting system for tapeless casting in the buffer chamber base or in Galileo's optional casting frame.

Unit	80-1214	80-1214-BEP <sup>1</sup>	80-1214-R <sup>2</sup>
Gel width (cm)	12	12	12
Gel run length (cm)	14	14	14
Max full run samples	25	25	25
Maximum samples	100	100	100
Comb slots	4	4	4

<sup>1</sup> unit includes buffer recirculation ports for connection to external recirculation devices.

<sup>2</sup> unit includes an automatic integrated buffer recirculation system for improved gel performance.

### RapidCast™ gel casting technology for mini gel units



RapidCast™ Technology uses trays with incorporated end gaskets, to easily cast gels in the gel unit base

Turn tray across gel platform  
to seal and pour  
Align with platform to run  
No tape! No Leaks!  
Fast & Efficient

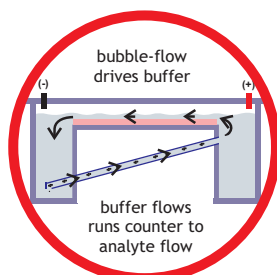
# 80-1214 RapidCast™ Mini Gel Systems

- galileo bioscience - integrated electrophoresis and blotting systems - 1-877-481-9175 -

Systems	80-1214	RapidCast complete system, includes 12x14cm gasketed tray + 12&20 tooth combs
	80-1214-BEP	80-1214 System, plus Buffer Exchange Ports
	80-1214-R	80-1214 System, plus integral buffer Recirculation
Combs	80-1214-C8-1.0	8 well comb for 1214, 1mm thick
	80-1214-C8-1.5	8 well comb for 1214, 1.5mm thick
	80-1214-CMT9-1.0	9 well comb for 1214, 1mm thick, Microtiter 1X format
	80-1214-CMT9-1.5	9 well comb for 1214, 1.5mm thick, Microtiter 1X format
	80-1214-CMT12-1.0	12 well comb for 1214, 1mm thick, Microtiter 1X format
	80-1214-CMT12-1.5	12 well comb for 1214, 1.5mm thick, Microtiter 1X format
	80-1214-C16-1.0	16 well comb for 1214, 1mm thick
	80-1214-C16-1.5	16 well comb for 1214, 1.5mm thick
	80-1214-C20-1.0	20 well comb for 1214, 1mm thick
	80-1214-C20-1.5	20 well comb for 1214, 1.5mm thick
	80-1214-C24-1.0	24 well comb for 1214, 1mm thick
	80-1214-C24-1.5	24 well comb for 1214, 1.5mm thick
	80-1214-CMT25-1.0	25 well comb for 1214, 1mm thick, Microtiter 2X format
	80-1214-CMT25-1.5	25 well comb for 1214, 1.5mm thick, Microtiter 2X format
	80-1214-CPREP	Prep comb with 2 teeth, 1.5mm thick
	80-1214-MT25-SLG	Sample Loading Guide for use with 25 well comb
	80-1214-CWALL	Wall comb, 1.5mm thick
Accessories	80-1214-RCGT4	RapidCast Gel Tray for 12x14cm gels, 4 comb slots
	80-1214-RCGT12	RapidCast Gel Tray for 12x14cm gels, 12 comb slots
	80-1214-RCGC	RapidCast Gel Caster, holds 3 gasketed 12x14cm trays
	80-1214-RCPK	RapidCast Gel Caster Pack, includes 3 x 80-1214-RCGT4
	80-1214-UVT2	Flush-Cut Gel Tray for 12x14cm gels, 2 comb slots
	80-1214-UVT4	Flush-Cut Gel Tray for 12x14cm gels, 4 comb slots
	80-1214-UVT12	Flush-Cut Gel Tray for 12x14cm gels, 12 comb slots
	80-1214-GSK	RapidCast replacement tray gaskets, set of 2

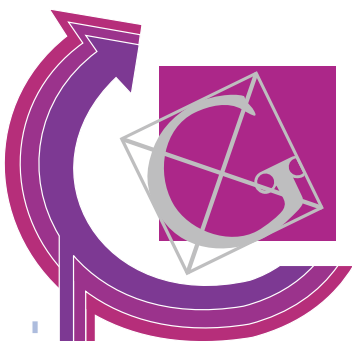
unit dimensions (cm)	18W x 24.5L x 9.5H
gel size (cm)	12W x 14L
buffer capacity	800ml
gel volume (0.5cm thick)	84ml
max sample capacity	100
max samples/full length run	25
electrode separation length	22.5cm
standard features	epoxy-sealed connections platinum electrodes non-slip feet
safety features	safety cover sheathed power leads
included tray	RapidCast UV transmissible fluorescent ruler 4 comb slots
included combs	1.5mm, 12 & 20 well
options	optional buffer ports or NEW* automatic buffer recirculation
running conditions	115 volts 5 volts/cm of electrode separation or 110V constant voltage (200V max voltage)

## Integrated buffer recirculation (available on selected units)



Galileo automatic buffer recirculation reduces detrimental ion and pH gradients in your buffer, providing even migration for long running gels.

Hydrogen bubbles created at the cathode carry buffer along a canted recirculation tube, providing a gentle, reliable and self-contained recirculation system that is self-regulating and requires no additional tubing or equipment.



**GALILEO**  
bioscience

**integrated electrophoresis systems**



## Midi Horizontal Systems

Galileo midi gel systems provide larger sample capacity and run lengths than our mini units, and are ideal for quick analysis of more complex analytes.



### ExpressCast™ Midi-Gel Systems Feature:

Buffer chamber with color coded, sealed platinum electrodes and non-slip rubber feet.

UV transmissible gel tray with ExpressCast gasketed end gates, built-in fluorescent ruler and 4 comb slots.

Safety cover with attached retractable-sheath power cords.

Systems include 4 combs of your choice.

Wide range of other combs and accessories available.

### Two sizes to fit your needs:

Unit	81-1515	81-2314
Gel width (cm)	15	23
Gel run length (cm)	15	14
Max Full-Run Samples	40	160
Maximum Samples	112	200
Comb slots	4	4

### ExpressCast™ gel casting technology:

ExpressCast™ gel unit trays incorporate gasketed end gates for quick, easy, and tape-less casting.

## Galileo Midi-Gel Systems

### High Performance

Exceptional resolution.

Platinum electrodes configured to provide uniform field for straight runs.

Multiple comb slot options for a wide range of sample and run-length configurations.

### Convenient & Versatile

UV transmissible gel trays with built-in fluorescent rulers.

Machined finger grooves on the tray sides for easy and sure handling.

Wide range of comb configurations, including multi-channel capability.

Selected units available with buffer recirculation capabilities.

Combs specifications clearly marked on each comb.

Optional casting methods for flexibility, convenience and speed.

### Safe & Reliable

High quality 9mm thick rugged acrylic construction, resists cracking and warping.

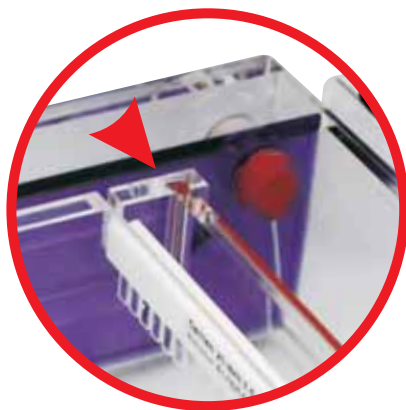
Your safety ensured with interlocking lid, protected sockets and permanently attached power cords.

Epoxy sealed electrode connections, resist corrosion and leaks.

Gold plated banana plugs.

Meets or exceeds IEC1010-1 standards.

### ExpressCast™ gel casting technology for wide gel units



ExpressCast™ trays include end slots into which fit gasketed end gates, for easy in-tray gel casting.

Fit end gates into trays for a quick and leak-proof seal.

No tape! No Leaks!

Fast & Efficient



#### integrated electrophoresis systems



## 81-1515 ExpressCast™ Midi Gel System

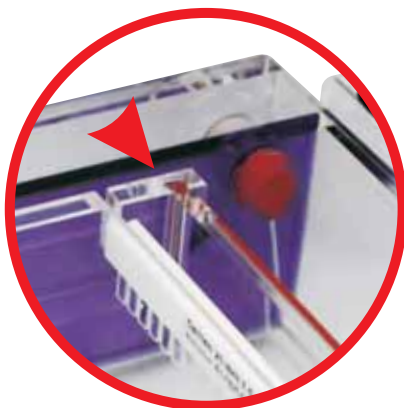
Galileo's new ExpressCast™ 80-1515 system is an ideal midi-gel unit for moderate thru-put sample analysis.



This system features Galileo's ExpressCast™ casting system for tapeless casting.

Unit	81-1515
Gel width (cm)	15
Gel run length (cm)	15
Max full run samples	40
Maximum samples	160
Comb slots	4

### ExpressCast™ gel casting technology



ExpressCast™ trays include end slots into which fit gasketed end gates, for easy in-tray gel casting.

Fit end gates into trays for a quick and leak-proof seal.

No tape! No Leaks!

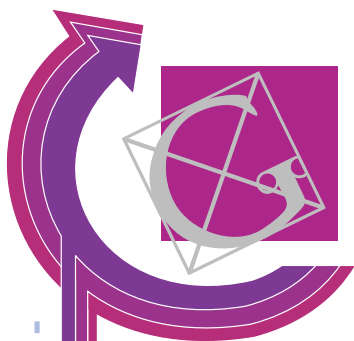
Fast & Efficient

# 81-1515 ExpressCast™ Midi Gel Systems

- galileo bioscience - integrated electrophoresis and blotting systems - 1-877-481-9175 -

Systems	81-1515	ExpressCast Complete System, includes 4-slot 15x15cm tray + 4 combs
Combs	81-15-C10-1.0	Comb 1.0mm thick/10 tooth
	81-15-C10-1.5	Comb 1.5mm thick/10 tooth
	81-15-C20-1.0	Comb 1.0mm thick/20 tooth
	81-15-C20-1.5	Comb 1.5mm thick/20 tooth
	81-15-C40-1.0	Comb 1.0mm thick/40 tooth
	81-15-C40-1.5	Comb 1.5mm thick/40 tooth
	81-15-CMT17-1.0	1X Microtiter Comb 1.0mm thick/17 tooth
	81-15-CMT17-1.5	1X Microtiter Comb 1.5mm thick/17 tooth
	81-15-CMT34-1.0	2X Microtiter Comb 1.0mm thick/34 tooth
	81-15-CMT34-1.5	2X Microtiter Comb 1.5mm thick/34 tooth
Accessories	81-1515-UVT	ExpressCast UVT Gel Tray w/ end gates, 15cmW x 15cmL gel size
	81-15-EG	End Gates, Set of (2), includes gasket
	81-15-DAM	Casting Dam for 15cm Wide Gel Trays
	81-15-GSK	Replacement gaskets, Set of (2)

unit dimensions (cm)	21W x 26L x 9.5H
gel size (cm)	15W x 15L
buffer capacity	1020ml
gel volume (0.5cm thick)	112ml
max sample capacity	160
max samples/full length run	40
electrode separation length	24cm
standard features	epoxy-sealed connections platinum electrodes non-slip feet
safety features	safety cover sheathed power leads
included tray	RapidCast UV transmissible fluorescent ruler 4 comb slots
included combs	1.5mm, 2x17 & 2x34 well (4 total)
options	optional buffer ports
running conditions	120 volts 5 volts/cm of electrode separation or 110V constant voltage (200V max voltage)



**GALILEO**  
bioscience

**integrated electrophoresis systems**



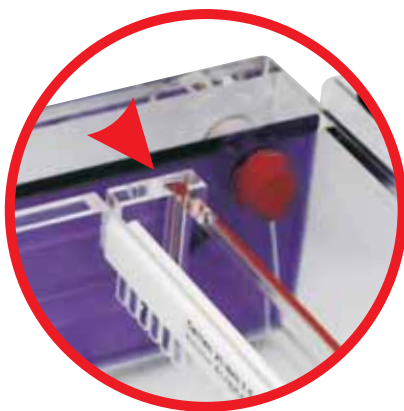
## 81-2314 ExpressCast™ Midi Gel System

The ExpressCast™ 81-2314 from Galileo is our “double-wide” midi gel unit. Ideal for quick analysis of larger quantities of samples. This unit features Galileo’s ExpressCast™ casting system. Trays with gasketed endgates provide reliable seals for quick and easy, tapeless, in-tray gel casting.



Unit	81-2314
Gel width (cm)	23
Gel run length (cm)	14
Max Full-Run Samples	50
Maximum Samples	200
Comb slots	4

### ExpressCast™ gel casting technology



ExpressCast™ trays include end slots into which fit gasketed end gates, for easy in-tray gel casting.

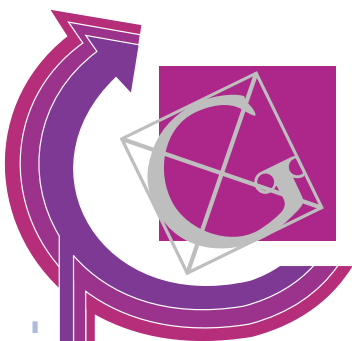
Fit end gates into trays for a quick and leak-proof seal.  
No tape! No Leaks!  
Fast & Efficient

# 81-2314 ExpressCast™ Midi Gel Systems

- galileo bioscience - integrated electrophoresis and blotting systems - 1-877-481-9175 -

Systems	81-2314	ExpressCast Gel System, includes 4-slot 23x14cm tray and 2ea 25 & 50 tooth combs
Combs	81-23-CMT25-1.0	25 well comb for 23cm wide units, 1mm thick, Microtiter 1X format
	81-23-CMT25-1.5	25 well comb for 23cm wide units, 1.5mm thick, Microtiter 1X format
	81-23-CMT26-1.0	26 well (24+2) comb for 23cm wide units, 1mm thick, Microtiter 1X format
	81-23-CMT26-1.5	26 well (24+2) comb for 23cm wide units, 1.5mm thick, Microtiter 1X format
	81-23-CMT50-1.0	50 well comb for 23cm wide units, 1mm thick, Microtiter 2X format
	81-23-CMT50-1.5	50 well comb for 23cm wide units, 1.5mm thick, Microtiter 2X format
	81-23-MT25-SLG	Sample Loading Guide for use with 25 well comb
	81-23-MT50-SLG	Sample Loading Guide for use with 50 well comb
	81-23-CWALL	Wall comb, 1.5mm thick, fits all 23.5cm trays
	81-23-DAM	Casting Dam for 23cm Wide Gel Trays
Accessories	81-2314-EXGT	ExpressCast Gel Tray for 23x14cm gels with 4 comb slots & gasketed end gates
	81-23-EG	Replacement End Gates with gaskets, set of 2
	81-23-GSK	Replacement Gasket, set of 2
	80-2314-GT	Flush Cut UVT gel tray with four comb slots, 23.5 cm W x 14 cmL

unit dimensions (cm)	32W x 26L x 10.5H
gel size (cm)	23W x 14L
buffer capacity	1700ml
gel volume (0.5cm thick)	161ml
max sample capacity	200
max samples/full length run	50
electrode separation length	23.3
standard features	epoxy-sealed connections platinum electrodes leveling screws & bubble level
safety features	safety cover sheathed power leads
included tray	UV transmissible fluorescent ruler 4 comb slots
included combs	1.5mm, 4 x 50-well
running conditions	120 volts 5 volts/cm of electrode separation or 110V constant voltage (200V max voltage)



**GALILEO**  
bioscience

**integrated electrophoresis systems**



## Maxi Horizontal Systems

Galileo large gel systems are designed for high resolution of complex analytes. All units feature long run lengths, with medium to high capacity units available.



### ExpressCast™ Maxi Systems Feature:

Buffer chamber with color coded, sealed platinum electrodes and non-slip rubber feet.

UV transmissible gel tray with ExpressCast gasketed end gates, and 4 to 14 comb slots.

Safety cover with attached retractable-sheath power cords.

Systems include 3-4 combs of your choice.

Wide range of other combs and accessories available.

### Four sizes to fit your needs:

Unit	81-1525	81-2025 <sup>1</sup>	81-2325 <sup>1</sup>	81-2340
Gel width (cm)	15	20	23	23
Gel run length (cm)	25	25	25	40
Max Full-Run Samples	28	42	50	50
Maximum Samples	112	168	500	600
Comb slots	4	6	12	14

<sup>1</sup> these units unit available with automatic buffer recirculation.

### ExpressCast™ gel casting technology:

ExpressCast™ gel unit trays incorporate gasketed end gates for quick, easy, and tape-less casting.

### Integrated automatic buffer recirculation:

Select units now available with integrated automatic buffer recirculation. No external tubing or pumps required!

## Galileo Maxi Systems

### High Performance

Exceptional resolution.

Platinum electrodes configured to provide uniform field for straight runs.

Multiple comb slot options for a wide range of sample and run-length configurations.

### Convenient & Versatile

UV transmissible gel trays with built-in fluorescent rulers.

Large units feature trays with multiple comb slots for versatility.

Machined finger grooves on the tray sides for easy and sure handling.

Wide range of comb configurations, including multi-channel capability.

Selected units available with buffer recirculation capabilities.

Combs specifications clearly marked on each comb.

Optional casting methods for flexibility, convenience and speed.

### Safe & Reliable

High quality 9mm thick rugged acrylic construction, resists cracking and warping.

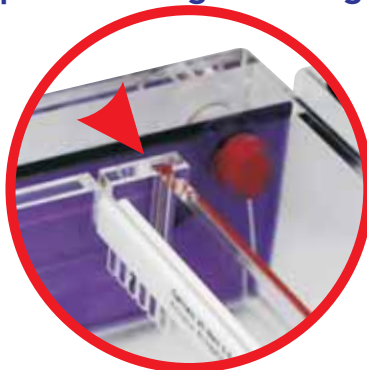
Your safety ensured with interlocking lid, protected sockets and permanently attached power cords.

Epoxy sealed electrode connections, resist corrosion and leaks.

Gold plated banana plugs.

Meets or exceeds IEC1010-1 standards.

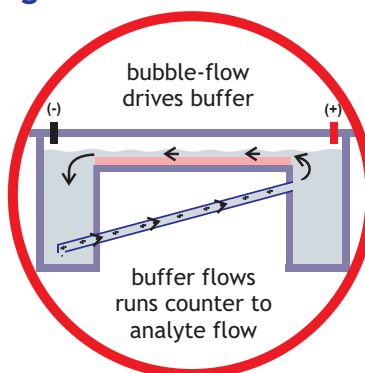
### ExpressCast™ gel casting technology



ExpressCast™ trays include end slots into which fit gasketed end gates, for easy in-tray gel casting.

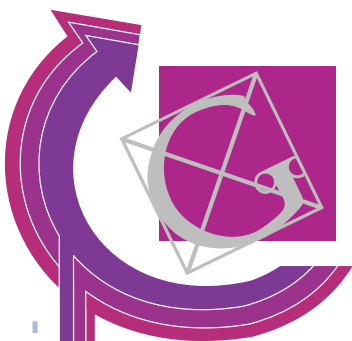
Fit end gates into trays for a quick and leak-proof seal.  
No tape! No Leaks!  
Fast & Efficient

### Integrated buffer recirculation (available on selected units)



Galileo automatic buffer recirculation reduces detrimental ion and pH gradients in your buffer, providing even migration for long running gels.

Hydrogen bubbles created at the cathode carry buffer along a canted recirculation tube, providing a gentle, reliable and self-contained recirculation system that is self-regulating and requires no additional tubing or equipment.



**GALILEO**  
bioscience

**integrated electrophoresis systems**



## 81-1525 ExpressCast™ Maxi Gel System



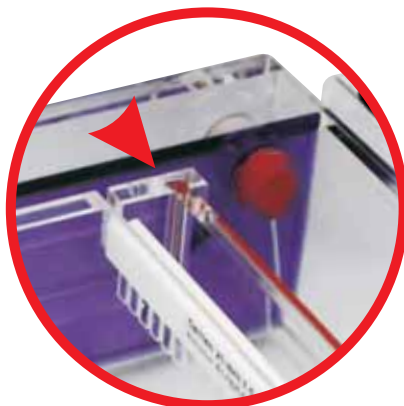
The Galileo ExpressCast™ 81-1525 provides a practical blend of high resolution and high thru-put and can accommodate an entire 96 well plate

Two unit configurations are available: the standard 81-1525 unit and the 81-1525-BEP device which includes buffer recirculation ports for connection to external buffer recirculation devices. Both systems feature Galileo's ExpressCast™ casting system for in-tray tapeless casting.

Unit	81-1525	81-1525-BEP <sup>1</sup>
Gel width (cm)	15	15
Gel run length (cm)	25	25
Max Full-Run Samples	40	40
Maximum Samples	160	160
Comb slots	4	4

<sup>1</sup> unit includes buffer recirculation ports for connection to external recirculation devices.

### ExpressCast™ gel casting technology



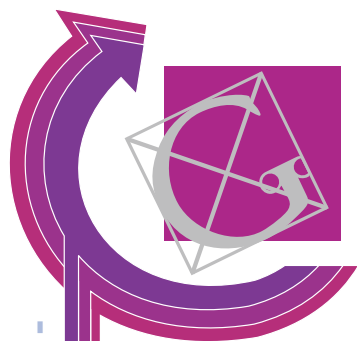
ExpressCast™ trays include end slots into which fit gasketed end gates, for easy in-tray gel casting.

Fit end gates into trays for a quick and leak-proof seal.  
No tape! No Leaks!  
Fast & Efficient

# 81-1525 ExpressCast™ Maxi Gel Systems

Systems	81-1525	ExpressCast Gel System for 15cmx25cm gels, includes 4-slot UVT Tray & 4 Combs
	81-1525-BEP	81-1525 System, plus Buffer Exchange Ports
Combs	81-15-C10-1.0	Comb 1.0mm thick/10 tooth
	81-15-C10-1.5	Comb 1.5mm thick/10 tooth
	81-15-C20-1.0	Comb 1.0mm thick/20 tooth
	81-15-C20-1.5	Comb 1.5mm thick/20 tooth
	81-15-C40-1.0	Comb 1.0mm thick/40 tooth
	81-15-C40-1.5	Comb 1.5mm thick/40 tooth
	81-15-CMT17-1.0	1X Microtiter Comb 1.0mm thick/17 tooth
	81-15-CMT17-1.5	1X Microtiter Comb 1.5mm thick/17 tooth
	81-15-CMT34-1.0	2X Microtiter Comb 1.0mm thick/34 tooth
	81-15-CMT34-1.5	2X Microtiter Comb 1.5mm thick/34 tooth
Accessories	81-1525-UVT	ExpressCast UVT Gel Tray w/ end gates, 15cmW x 25cmL gel size
	81-1520-UVT	ExpressCast UVT Gel Tray w/ end gates, 15cmW x 20cmL gel size
	81-15-DAM	Casting Dam for 15cm Wide Gel Trays
	81-15-GSK	Replacement gaskets, Set of (2)

unit dimensions (cm)	23.5W x 37.5L x 10.5H
gel size (cm)	15W x 25L
buffer capacity	1850ml
gel volume (0.5cm)	188ml
max sample capacity	160
max samples/full length run	40
electrode separation length	34.3cm
standard features	epoxy-sealed connections platinum electrodes leveling screws & level
safety features	safety cover sheathed power leads
casting system	Galileo ExpressCast gasketed end gates
included tray	UV transmissible 4 comb slots
included combs	1.5mm, 2x17 & 2x34 well, 4 combs total
options	optional buffer ports
running conditions	170 volts 5 volts/cm of electrode separation or 110V constant voltage (200V max voltage)



**GALILEO**  
bioscience

**integrated electrophoresis systems**



## 81-2025 ExpressCast™ Maxi Gel System



The Galileo ExpressCast™ 81-2025 can accommodate a large range of sample and run length combinations for the ultimate in versatility.

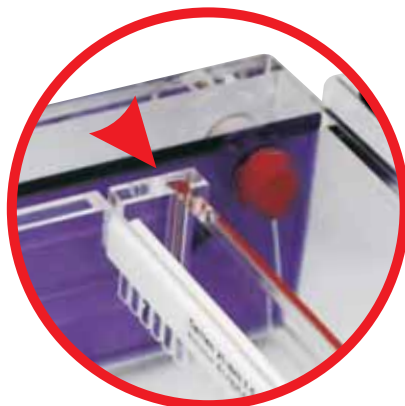
Three unit configurations are available including the new 81-2025-R which includes integrated automatic buffer recirculation for improved performance. Also available are the standard 81-2325 unit and the 81-2025-BEP device which includes buffer recirculation ports for connection to external buffer recirculation devices. All three systems feature Galileo's ExpressCast™ casting system for in-tray tapeless casting.

Unit	81-2025	81-2025-BEP <sup>1</sup>	81-2025-R <sup>2</sup>
Gel width (cm)	20	20	20
Gel run length (cm)	25	25	25
Max Full-Run Samples	42	42	42
Maximum Samples	168	168	168
Comb slots	6	6	6

<sup>1</sup> unit includes buffer recirculation ports for connection to external recirculation devices.

<sup>2</sup> unit includes an automatic integrated buffer recirculation system for improved gel performance.

### ExpressCast™ gel casting technology



ExpressCast™ trays include end slots into which fit gasketed end gates, for easy in-tray gel casting.

Fit end gates into trays for a quick and leak-proof seal.  
No tape! No Leaks!  
Fast & Efficient

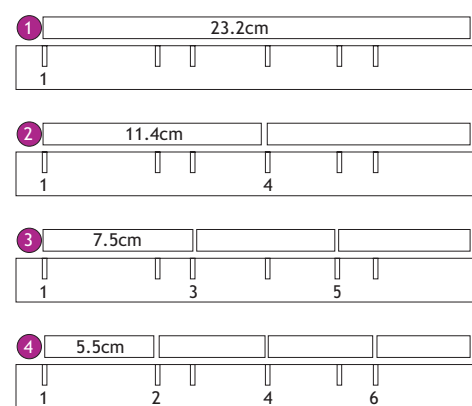
# 81-2025 ExpressCast™ Maxi Gel Systems

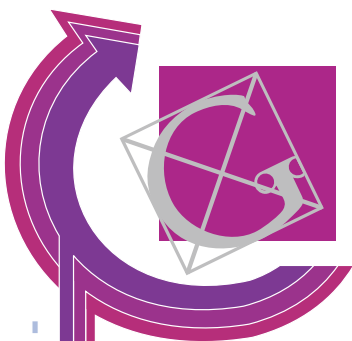
- galileo bioscience - integrated electrophoresis and blotting systems - 1-877-481-9175 -

Systems	81-2025	ExpressCast Gel System, includes 6-slot 20x25cm gel tray and 16, 24 & 36 tooth combs
	81-2025-BEP	81-2025 System, plus Buffer Exchange Ports
	81-2025-R	81-2025 System, plus integral buffer Recirculation
Combs	81-20-C8-1.0	8 Tooth comb for 2025, 1mm thick
	81-20-C8-1.5	8 Tooth comb for 2025, 1.5mm thick
	81-20-C12-1.0	12 Tooth comb for 2025, 1mm thick
	81-20-C12-1.5	12 Tooth comb for 2025, 1.5mm thick
	81-20-C16-1.0	16 Tooth comb for 2025, 1mm thick
	81-20-C16-1.5	16 Tooth comb for 2025, 1.5mm thick
	81-20-C20-1.0	20 Tooth comb for 2025, 1mm thick
	81-20-C20-1.5	20 Tooth comb for 2025, 1.5mm thick
	81-20-C24-1.0	24 Tooth comb for 2025, 1mm thick
	81-20-C24-1.5	24 Tooth comb for 2025, 1.5mm thick
	81-20-C28-1.0	28 Tooth comb for 2025, 1mm thick
	81-20-C28-1.5	28 Tooth comb for 2025, 1.5mm thick
	81-20-C32-1.0	32 Tooth comb for 2025, 1mm thick
	81-20-C32-1.5	32 Tooth comb for 2025, 1.5mm thick
	81-20-C36-1.0	36 Tooth comb for 2025, 1mm thick
	81-20-C36-1.5	36 Tooth comb for 2025, 1.5mm thick
	81-20-CMT18-1.0	18 well comb for 2025, 1mm thick, Microtiter 1X format
	81-20-CMT18-1.5	18 well comb for 2025, 1.5mm thick, Microtiter 1X format
	81-20-CMT21-1.0	21 well comb for 2025, 1mm thick, Microtiter 1X format
	81-20-CMT21-1.5	21 well comb for 2025, 1.5mm thick, Microtiter 1X format
	81-20-CMT42-1.0	42 well comb for 2025, 1mm thick, Microtiter 2X format
	81-20-CMT42-1.5	42 well comb for 2025, 1.5mm thick, Microtiter 2X format
	81-20-CPREP	Prep comb with 2 teeth, 1.5mm thick
	81-20-CWALL	Wall comb, 1.5mm thick
	81-20-DAM	Casting Dam for 20cm Wide Gel Trays
Accessories	81-2025-EXGT	ExpressCast Gel Tray for 20x25cm gels with 6 comb slots & gasketed end gates
	81-2025-EG	Replacement End Gates with gaskets, set of 2
	81-2025-GSK	Replacement Gasket, set of 2

unit dimensions (cm)	29W x 37.5L x 10.5H
gel size (cm)	20W x 25L
buffer capacity	2300ml
gel volume (0.5cm)	250ml
max sample capacity	168
max samples/full length run	42
electrode separation length	34.3cm
standard features	epoxy-sealed connections platinum electrodes leveling screws & bubble level
safety features	safety cover sheathed power leads
casting system	Galileo ExpressCast gasketed end gates
included tray	UV transmissible 6 comb slots
included combs	1.5mm, 16, 24 & 36 well
options	optional buffer ports or automatic buffer recirculation
running conditions	170 volts 5 volts/cm of electrode separation or 110V constant voltage (200V max voltage)

## Run Length Options for 2025 Units





**GALILEO**  
bioscience

**integrated electrophoresis systems**



## 81-2325 ExpressCast™ Maxi Gel System

ExpressCast™ 81-2325 systems are capable of processing large numbers of samples quickly and efficiently.



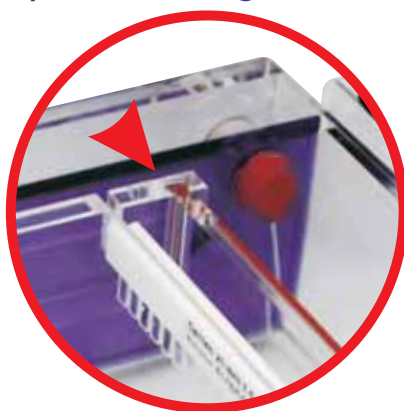
Three unit configurations are available including the new 81-2325-R which includes integrated automatic buffer recirculation for improved performance. Also available are the standard 81-2325 unit and the 81-2325-BEP device which includes buffer recirculation ports for connection to external buffer recirculation devices. All three systems feature Galileo's ExpressCast™ casting system for in-tray tapeless casting.

Unit	81-2325	81-2325-BEP <sup>1</sup>	81-2325-R <sup>2</sup>
Gel width (cm)	23	23	23
Gel run length (cm)	25	25	25
Max Full-Run Samples	50	50	50
Maximum Samples	500	500	500
Comb slots	12	12	12

<sup>1</sup> unit includes buffer recirculation ports for connection to external recirculation devices.

<sup>2</sup> unit includes an automatic integrated buffer recirculation system for improved gel performance.

### ExpressCast™ gel casting technology



ExpressCast™ trays include end slots into which fit gasketed end gates, for easy in-tray gel casting.

Fit end gates into trays for a quick and leak-proof seal.

No tape! No Leaks!

Fast & Efficient

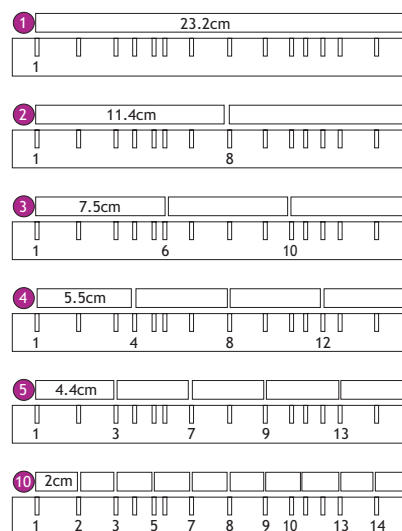
# 81-2325 ExpressCast™ Maxi Gel Systems

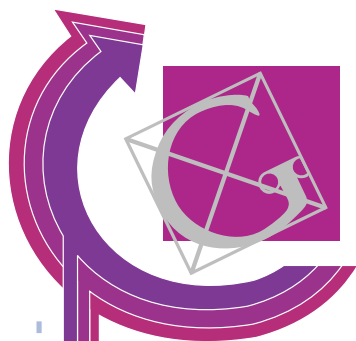
- galileo bioscience - integrated electrophoresis and blotting systems - 1-877-481-9175 -

Systems	81-2325	ExpressCast Gel System, includes 6-slot 23x25cm tray and 2ea 25 & 50 tooth combs
	81-2325-BEP	81-2025 System, plus Buffer Exchange Ports
	81-2325-R	81-2025 System, plus integral buffer Recirculation
Combs	81-23-CMT25-1.0	25 well comb for 23cm wide units, 1mm thick, Microtiter 1X format
	81-23-CMT25-1.5	25 well comb for 23cm wide units, 1.5mm thick, Microtiter 1X format
	81-23-CMT26-1.0	26 well (24+2) comb for 23cm wide units, 1mm thick, Microtiter 1X format
	81-23-CMT26-1.5	26 well (24+2) comb for 23cm wide units, 1.5mm thick, Microtiter 1X format
	81-23-CMT50-1.0	50 well comb for 23cm wide units, 1mm thick, Microtiter 2X format
	81-23-CMT50-1.5	50 well comb for 23cm wide units, 1.5mm thick, Microtiter 2X format
	81-23-MT25-SLG	Sample Loading Guide for use with 25 well comb
	81-23-MT50-SLG	Sample Loading Guide for use with 50 well comb
	81-23-CWALL	Wall comb, 1.5mm thick, fits all 23.5cm trays
	81-23-DAM	Casting Dam for 23cm Wide Gel Trays
Accessories	81-2325-EXGT	ExpressCast Gel Tray for 23x25cm gels with 14 comb slots & gasketed end gates
	81-23-EG	Replacement End Gates with gaskets, set of 2
	81-23-GSK	Replacement Gasket, set of 2

unit dimensions (cm)	32W x 37.5 x 10.5H
gel size (cm)	23W x 25L
buffer capacity	3000ml
gel volume (0.5cm thick)	294ml
max sample capacity	500
max samples/full length run	50
electrode separation length	34.3cm
standard features	epoxy-sealed connections platinum electrodes leveling screws & bubble level
safety features	leveling screws & bubble level
included tray	UV transmissible 14 comb slots
included combs	1.5mm, 2ea 25 & 50 well
options	optional buffer ports or <b>NEW</b> automatic buffer recirculation
running conditions	170 volts 5 volts/cm of electrode separation or 110V constant voltage (200V max voltage)

## Run Length Options for 2325 Unit





**GALILEO**  
bioscience

**integrated electrophoresis systems**



## 81-2340 BEP ExpressCast™ Maxi Gel System



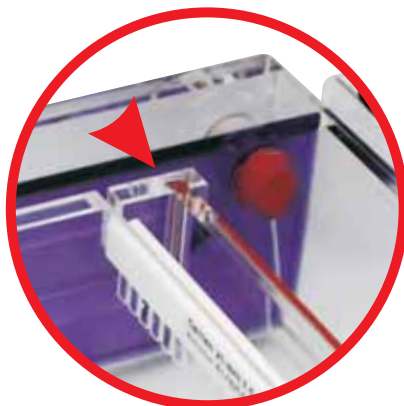
The ExpressCast™ 81-2340 can handle both very large numbers of samples, and long runs as well, providing both high resolution and high thru-put.

The 81-2340-BEP device includes buffer recirculation ports for connection to external buffer recirculation devices, and features Galileo's ExpressCast™ casting system for in-tray tapeless casting.

Unit	81-2340-BEP <sup>1</sup>
Gel width (cm)	23
Gel run length (cm)	40
Max Full-Run Samples	50
Maximum Samples	600
Comb slots	12

<sup>1</sup> unit includes buffer recirculation ports for connection to external recirculation devices.

### ExpressCast™ gel casting technology



ExpressCast™ trays include end slots into which fit gasketed end gates, for easy in-tray gel casting.

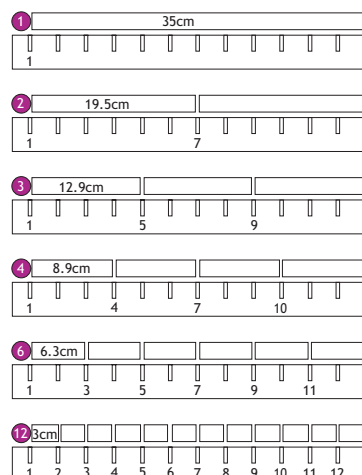
Fit end gates into trays for a quick and leak-proof seal.  
No tape! No Leaks!  
Fast & Efficient

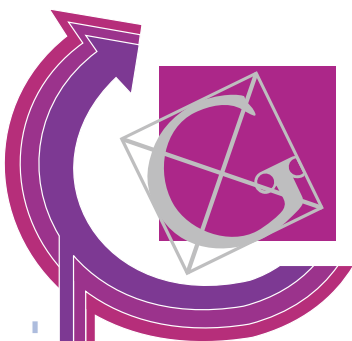
# 81-2340 ExpressCast™ Maxi Gel Systems

Systems	81-2340-BEP	ExpressCast Gel System, includes 12-slot 23x40cm tray and 2ea 25 & 50 tooth combs, plus integrated buffer recirculation ports.
Combs	81-23-CMT25-1.0	25 well comb for 23cm wide units, 1mm thick, Microtiter 1X format
	81-23-CMT25-1.5	25 well comb for 23cm wide units, 1.5mm thick, Microtiter 1X format
	81-23-CMT26-1.0	26 well (24+2) comb for 23cm wide units, 1mm thick, Microtiter 1X format
	81-23-CMT26-1.5	26 well (24+2) comb for 23cm wide units, 1.5mm thick, Microtiter 1X format
	81-23-CMT50-1.0	50 well comb for 23cm wide units, 1mm thick, Microtiter 2X format
	81-23-CMT50-1.5	50 well comb for 23cm wide units 5, 1.5mm thick, Microtiter 2X format
	81-23-MT25-SLG	Sample Loading Guide for use with 25 well comb
	81-23-MT50-SLG	Sample Loading Guide for use with 50 well comb
	81-23-CWALL	Wall comb, 1.5mm thick, fits all 23.5cm trays
	81-23-DAM	Casting Dam for 23cm Wide Gel Trays
Accessories	81-2340-EXGT	ExpressCast Gel Tray for 23x40cm gels with 12 comb slots & gasketed end gates
	81-23-EG	Replacement End Gates with gaskets, set of 2
	81-23-GSK	Replacement Gasket, set of 2

unit dimensions (cm)	32W x 53L x 10.5H
gel size (cm)	23W x 40L
buffer capacity	4500ml
gel volume (0.5cm thick)	460ml
max sample capacity	600
max samples/full length run	50
electrode separation length	49.5cm
standard features	epoxy-sealed connections platinum electrodes leveling screws & level <b>includes buffer ports</b>
safety features	safety cover sheathed power leads
included tray	UV transmissible 12 comb slots
included combs	1.5mm, 2ea 25 & 50 well
running conditions	200 volts 5 volts/cm of electrode separation or 110V constant voltage (200V max voltage)

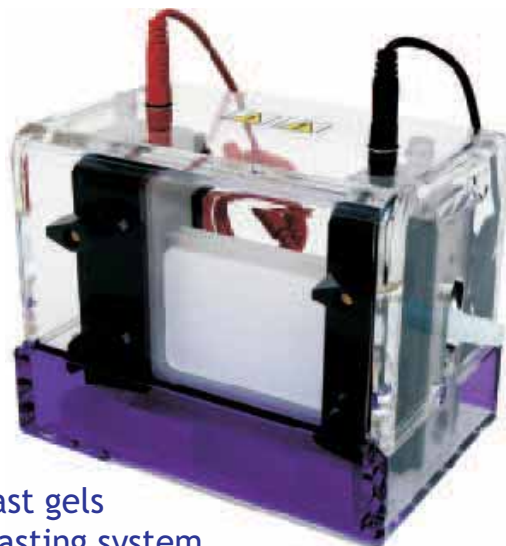
## Run Length Options for 2340 Unit





**GALILEO**  
bioscience

**integrated electrophoresis systems**



## Reflection™ Twin Vertical Gel Systems

### High Performance

Exceptional resolution  
Rugged trouble-free construction  
All units run one or two gels  
1010 unit compatible with most pre-cast gels  
Rapid and efficient cast-in-place gel casting system  
Unique electrode configuration for straight, rapid runs  
Efficient temperature regulation prevents band distortion

### Four sizes to fit your needs:

Unit	85-1010	85-2010	85-1614	85-2020
Gel width (cm)	10	20	16	20
Gel run length (cm)	10	10	14	20
Maximum Samples*	15/30	36/72	24/48	25/50

\* Maximum per gel / Maximum per (2-gel) unit run.

### Convenient & Versatile

Upper buffer chamber acts as heat sink to provide uniform temperature across gel and reduce smiling.  
Units available with ports for attachment to external cooling systems.  
Wide range of comb configurations, including multi-channel capability.  
Reliable clamping system for no-leak casting and running.  
Optional gel caster for pre-casting gels while system is in use.  
Wide range of combs and accessories

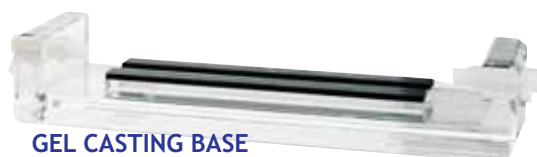
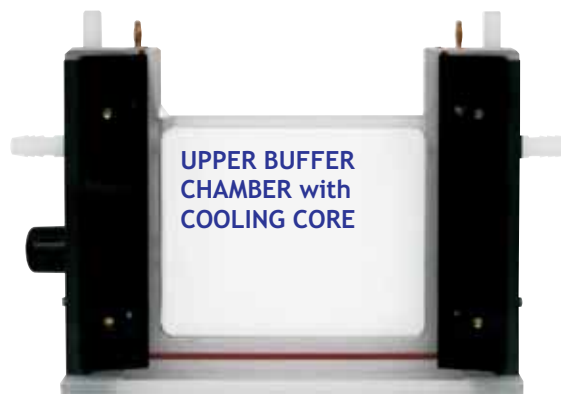
### Safe & Reliable

High quality, rugged acrylic construction, resists cracking and warping.  
Your safety ensured with interlocking lid.  
Corrosion resistant contacts and gold plugs for years of reliable service.  
Meets or exceeds IEC1010-1 standards.

## Galileo vertical systems comparison chart

unit	85-1010	85-2010	85-1614	85-2020
description	mini twin	wide mini twin	midi twin	maxi twin
system dimensions	14H x 17W x 12D	15H x 28W x 13D	18H x 24W x 14D	24H x 30W x 16D
gel dimensions	10W x 8-10L	20W x 8-10L	16W x 14-16L	20W x 20L
buffer volume	400ml	800ml	700ml	1300ml
gel volume	6-15ml	15-30ml	14-27ml	25-49ml
max samples / gel	15	36	24	25
max samples / run	30	72	48	50
water cooling ports	Optional	Optional	Yes	Yes

## Galileo vertical systems components



Casting base attaches to Upper Buffer Chamber and provides a secure bottom seal for casting. Optional casting stand also available for casting gels while unit is in use.

### Reliable clamping system



For leak-free gel running and casting.

### 3-Cathode power system



For uniform field and straight lanes.



**GALILEO**  
bioscience

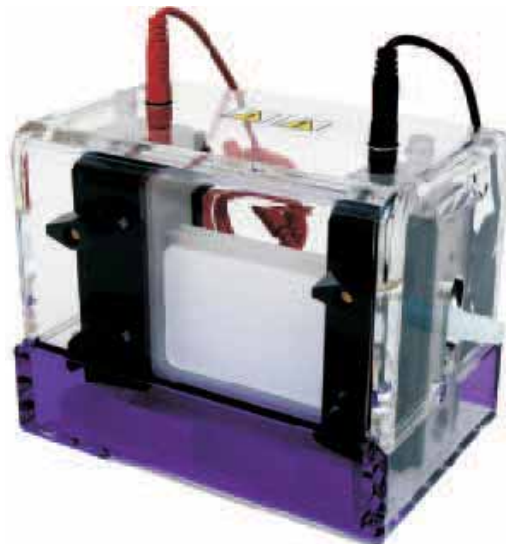
**integrated electrophoresis systems**



## Reflection™ 85-1010 Twin Mini Vertical Gel System

### High Performance

- Exceptional resolution.
- Rugged trouble-free construction.
- All units run one or two gels.
- Unit compatible with most pre-cast gels.
- Rapid and efficient gel casting system.
- Unique electrode configuration for straight, rapid runs.
- Efficient temperature regulation prevents band distortion.
- Wide range of combs and accessories available.
- Optional gel cooling ports available: (WCS sytem).



Unit	85-1010
Gel width (cm)	10
Gel run length (cm)	10
Maximum Samples*	15/30

\* Maximum per gel / Maximum per (2-gel) unit run.

### Reliable clamping system



For leak-free  
gel running  
and casting.

### 3-Cathode power system



For uniform  
field and  
straight lanes.

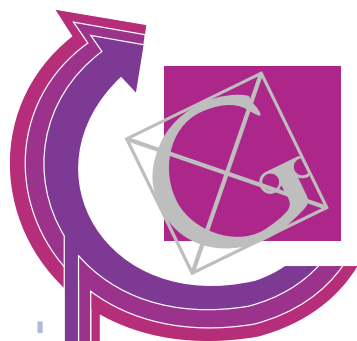
## 85-1010 Reflection™ Mini Vertical Gel Systems

- galileo bioscience - integrated electrophoresis and blotting systems - 1-877-481-9175 -

1010 Systems	85-1010-NCS	Reflection Mini Twin Vertical System w/out water cooling
	85-1010-WCS	Reflection Mini Twin Vertical System w/ water cooling
1010 Combs	85-1010-C6-0.8	6 Well Comb for 1010, 0.8mm thick
	85-1010-C6-1.5	6 Well Comb for 1010, 1.5mm thick
	85-1010-C8-0.8	8 Well Comb for 1010, 0.8mm thick
	85-1010-C8-1.5	8 Well Comb for 1010, 1.5mm thick
	85-1010-C10-0.8	10 Well Comb for 1010, 0.8mm thick
	85-1010-C10-1.5	10 Well Comb for 1010, 1.5mm thick
	85-1010-C12-0.8	12 Well Comb for 1010, 0.8mm thick
	85-1010-C12-1.5	12 Well Comb for 1010, 1.5mm thick
	85-1010-C15-0.8	15 Well Comb for 1010, 0.8mm thick
	85-1010-C15-1.5	15 Well Comb for 1010, 1.5mm thick
	85-1010-CMT9-0.8	9 Well Comb for 1010, 0.8mm thick Microtiter 1X format
	85-1010-CMT9-1.5	9 Well Comb for 1010, 1.5mm thick Microtiter 1X format
1010 Accessories	85-1010-UBC-NC	Non-cooled Upper Buffer chamber only
	85-1010-UBC-WC	Water-cooled upper buffer Chamber only
	85-1010-GCB	Gel Casting Base, Use with Upper Buffer Chamber
	85-1010-GCS	Gel Casting Stand, works without Upper Buffer Chamber
	85-1010-G10NG	Notched glass Plate, 10cmx10cmx0.24cm thick
	85-1010-G10PG	Plain glass Plate, 10cmx10cmx0.24cm thick
	85-1010-BPL	Blocking Plate for running a single gel
	85-1010-G10NA	Notched alumina backer plate for improved cooling
	85-1010-SP-0.8	Side Spacers, 0.8mm thick, 2 per set
	85-1010-SP-1.5	Side Spacers, 1.5mm thick, 2 per set
	85-1010-WK	Wing knobs, pk of 4, (Fits all vertical systems)
	85-1010-CL	Replacement Clamps, pk of 2
	85-1010-CBGSK	Replacement Gasket Set, Casting Base, pk of 2
	85-1010-GSK	Replacement Gasket Set, Upper Buffer Chamber, pk of 2

<b>components</b>	upper buffer chamber (UBC) with 3 platinum electrodes lower buffer chamber (LBC) with precision guides for UBC safety-interlock lid with attached retractable-sheathed leads casting base (CB) blocking plate for running one gel replacement gasket set for UBC replacement gasket set for CB
<b>water cooled UBC</b>	Optional
<b>glass plates</b>	4 plain glass plates 2 notched glass plates
<b>aluminum plates</b>	2 notched alumina plates
<b>combs</b>	(2) 0.8mm x 10-well
<b>side spacers</b>	(4) 0.8mm spacers

<b>system dimensions</b>	14H x 17W x 12D
<b>gel dimensions</b>	10W x 8-10L
<b>buffer volume</b>	400ml
<b>gel volume</b>	6-15ml
<b>max samples / gel</b>	15
<b>max samples / run</b>	30
<b>maximum voltage</b>	600V
<b>current @constant Vmax</b>	15-35mA per gel
<b>run time</b>	30-60min



**GALILEO**  
bioscience

**integrated electrophoresis systems**



## Reflection™ 85-2010 Wide Mini Twin Vertical Gel Systems



### High Performance

Runs one or two gels.

Rugged trouble-free construction.

Wide format accomodates large sample numbers.

Unique electrode configuration for straight, rapid runs.

Efficient temperature regulation prevents band distortion.

Rapid and efficient gel casting system.

Wide range of combs and accessories available.

Unit	85-2010
Gel width (cm)	20
Gel run length (cm)	10
Maximum Samples*	36/72

\* Maximum per gel / Maximum per (2-gel) unit run.

### Reliable clamping system



For leak-free  
gel running  
and casting.

### 3-Cathode power system



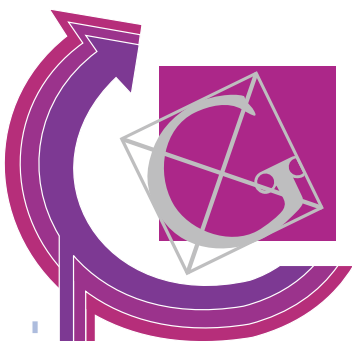
For uniform  
field and  
straight lanes.

## 85-2010 Reflection™ Wide Mini Vertical Gel Systems

2010 Systems	85-2010-NCS	Reflection Twin Wide Vertical System w/out water cooling
	85-2010-WCS	Reflection Twin Wide Vertical System w/ water cooling
2010 Combs	85-2010-C10-0.8	10 Well Comb for 2010, 0.8mm thick
	85-2010-C10-1.5	10 Well Comb for 2010, 1.5mm thick
	85-2010-C15-0.8	15 Well Comb for 2010, 0.8mm thick
	85-2010-C15-1.5	15 Well Comb for 2010, 1.5mm thick
	85-2010-C20-0.8	20 Well Comb for 2010, 0.8mm thick
	85-2010-C20-1.5	20 Well Comb for 2010, 1.5mm thick
	85-2010-C25-0.8	25 Well Comb for 2010, 0.8mm thick
	85-2010-C25-1.5	25 Well Comb for 2010, 1.5mm thick
	85-2010-CMT18-0.8	18 Well Comb for 2010, 0.8mm thick Microtiter 1X format
	85-2010-CMT18-1.5	18 Well Comb for 2010, 1.5mm thick Microtiter 1X format
	85-2010-CMT36-0.8	36 Well Comb for 2010, 0.8mm thick Microtiter 2X format
	85-2010-CMT36-1.5	36 Well Comb for 2010, 1.5mm thick Microtiter 2X format
2010 Accessories	85-2010-UBC-NC	Non-cooled Upper Buffer chamber only
	85-2010-UBC-WC	Water-cooled upper buffer Chamber only
	85-2010-GCB	Gel Casting Base-use with Upper Buffer Chamber
	85-2010-GCS	Gel Casting Stand for casting 2x20cm W gels
	85-2010- G10NG	Notched glass Plate, 20cmWx10cmLx0.32cm thick
	85-2010- G10PG	Plain glass Plate, 20cmWx10cmLx0.32cm thick
	85-2010-BPL	Blocking Plate for running a single gel
	85-2010-SP-0.8	Side Spacers, 0.8mm thick, 2 per set
	85-2010-SP-1.5	Side Spacers, 1.5mm thick, 2 per set
	85-2010-CBGSK	Replacement Gasket Set, Casting Base, 2 per set
	85-2010-GSK	Replacement Gasket Set, Upper Buffer Chamber, 2 per set
	85-2010-CL	Replacement Clamps, 2 per set

<b>components</b>	upper buffer chamber (UBC) with 3 platinum electrodes lower buffer chamber (LBC) with precision guides for UBC safety-interlock lid with attached retractable-sheathed leads casting base (CB) blocking plate for running single gel replacement gasket set for UBC replacement gasket set for CB
<b>water cooled UBC</b>	Optional
<b>glass plates</b>	4 plain glass plates 4 notched glass plates
<b>combs</b>	(2) 0.8mm, 15-well (2) 0.8mm, 20-well
<b>side spacers</b>	(8) 0.8mm spacers

<b>system dimensions</b>	15H x 28W x 13D
<b>gel dimensions</b>	20W x 8-10L
<b>buffer volume</b>	800ml
<b>gel volume</b>	15-30ml
<b>max samples / gel</b>	36
<b>max samples / run</b>	72
<b>maximum voltage</b>	600V
<b>current @ constant maximum voltage</b>	15-45mA per gel
<b>run time</b>	30-90min



**GALILEO**  
bioscience

**integrated electrophoresis systems**



## Reflection™ 85-1614 Midi Twin Vertical Gel Systems

Exceptional resolution.  
Gel cooling ports standard.  
All units run one or two gels.  
Rapid and efficient gel casting system.  
Unique electrode configuration for straight, rapid runs.  
Efficient temperature regulation prevents band distortion.  
Rugged trouble-free construction.  
Wide range of combs and accessories available.



Unit	85-1614
Gel width (cm)	16
Gel run length (cm)	14
Maximum Samples*	24/48

\* Maximum per gel / Maximum per (2-gel) unit run.

### Gel cooling ports



For upper  
chamber and  
gel cooling.

### 3-Cathode power system



For uniform  
field and  
straight lanes.

- galileo bioscience - integrated electrophoresis and blotting systems -

## 85-1614 Reflection™ Midi Vertical Gel Systems

1614	85-1614-WCS	Reflection Twin Midi Vertical System w/ water cooling
	85-1614-C10-0.8	10 Well Comb for 1614, 0.8mm thick
1614 Combs	85-1614-C10-1.5	10 Well Comb for 1614, 1.5mm thick
	85-1614-C15-0.8	15 Well Comb for 1614, 0.8mm thick
	85-1614-C15-1.5	15 Well Comb for 1614, 1.5mm thick
	85-1614-C20-0.8	20 Well Comb for 1614, 0.8mm thick
	85-1614-C20-1.5	20 Well Comb for 1614, 1.5mm thick
	85-1614-C24-0.8	24 Well Comb for 1614, 0.8mm thick
	85-1614-C24-1.5	24 Well Comb for 1614, 1.5mm thick
	85-1614-CPREP	Prep comb with 2 wells, 1.5mm thick
1614 Accessories	85-1614-UBC-WC	Water-cooled upper buffer Chamber only
	85-1614-GCB	Gel Casting Base-use with Upper Buffer Chamber
	85-1614-GCS	Gel Casting Stand for casting 2x16cm W gels
	85-1614- G14NG	Notched glass Plate, 16cmWx14cmLx0.32cm thick
	85-1614- G14PG	Plain glass Plate, 16cmWx14cmLx0.32cm thick
	85-1614-BPL	Blocking Plate for running a single gel
	85-1614-SP-0.8	Side Spacers, 0.8mm thick, 2 per set
	85-1614-SP-1.5	Side Spacers, 1.5mm thick, 2 per set
	85-1614-CL	Replacement Clamps, 2 per set
	85-1614-CBGSK	Replacement Gasket Set, Casting Base, 2 per set
	85-1614-GSK	Replacement Gasket Set, Upper Buffer Chamber, 2 per set

<b>components</b>	water cooled upper buffer chamber (UBC) with 3 platinum electrodes lower buffer chamber (LBC) with precision guides for UBC safety-interlock lid with attached retractable-sheathed leads casting base (CB) blocking plate for running one gel replacement gasket set for UBC replacement gasket set for CB
<b>water cooled UBC</b>	Yes
<b>glass plates</b>	4 plain glass plates 4 notched glass plates
<b>combs</b>	(2) 1.5mm x 10-well (2) 1.5mm x 15-well
<b>side spacers</b>	(8) 1.5mm spacers

<b>system dimensions</b>	18H x 24W x 14D
<b>gel dimensions</b>	16W x 14-16L
<b>buffer volume</b>	700ml
<b>gel volume</b>	14-27ml
<b>max samples / gel</b>	24
<b>max samples / run</b>	48
<b>maximum voltage</b>	600V
<b>current @ constant maximum voltage</b>	15-50mA per gel
<b>run time</b>	60-120min



**GALILEO**  
bioscience

**integrated electrophoresis systems**



## Reflection™ 85-2020 Maxi Twin Vertical Gel Systems

Exceptional resolution.  
Unit can run one or two gels  
Rugged trouble-free construction.  
Rapid and efficient gel casting system.  
Unique electrode configuration for straight, rapid runs.  
Efficient temperature regulation prevents band distortion.  
Wide range of combs and accessories available.  
Gel cooling ports standard.



Unit	85-2020
Gel width (cm)	20
Gel run length (cm)	20
Maximum Samples*	25/50

\* Maximum per gel / Maximum per (2-gel) unit run.

### Gel cooling ports



For upper  
chamber and  
gel cooling.

### 3-Cathode power system



For uniform  
field and  
straight lanes.

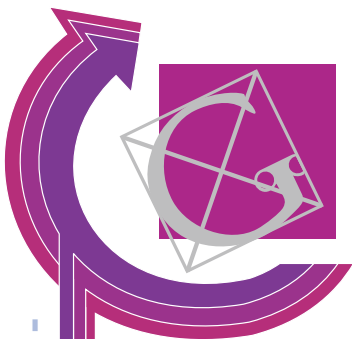
## 85-2020 Reflection™ Maxi Vertical Gel Systems

- galileo bioscience - integrated electrophoresis and blotting systems - 1-877-481-9175 -

2020 Combs	85-2020-WCS	Reflection Twin Maxi Vertical System w/ water cooling
	85-2020-C10-0.8	10 Well Comb for 2020, 0.8mm thick
	85-2020-C10-1.5	10 Well Comb for 2020, 1.5mm thick
	85-2020-C15-0.8	15 Well Comb for 2020, 0.8mm thick
	85-2020-C15-1.5	15 Well Comb for 2020, 1.5mm thick
	85-2020-C20-0.8	20 Well Comb for 2020, 0.8mm thick
	85-2020-C20-1.5	20 Well Comb for 2020, 1.5mm thick
	85-2020-C24-0.8	24 Well Comb for 2020, 0.8mm thick
	85-2020-C24-1.5	24 Well Comb for 2020, 1.5mm thick
	85-2020-C25-0.8	25 Well Comb for 2020, 0.8mm thick
2020 Accessories	85-2020-C25-1.5	25 Well Comb for 2020, 1.5mm thick, Microtiter 2X format
	85-2020-CPREP	Prep comb with 2 wells, 1.5mm thick
	85-2020-UBC-WC	Water-cooled upper buffer Chamber only
	85-2020-GCB	Gel Casting Base-use with Upper Buffer Chamber
	85-2020-GCS	Gel Casting Stand for casting 2x20cm W gels
	85-2020-G20NG	Notched glass Plate, 20cmWx20cmLx0.32cm thick
	85-2020-G20PG	Plain glass Plate, 20cmWx20cmLx0.32cm thick
	85-2020-BPL	Blocking Plate for running a single gel
	85-2020-SP-0.8	Side Spacers, 0.8mm thick, 2 per set
	85-2020-SP-1.5	Side Spacers, 1.5mm thick, 2 per set
	85-2020-CBGSK	Replacement Gasket Set, Casting Base, 2 per set
	85-2020-GSK	Replacement Gasket Set, Upper Buffer Chamber, 2 per set
	85-2020-CL	Replacement Clamps, 2 per set

<b>components</b>	water cooled upper buffer chamber (UBC) with 3 platinum electrodes lower buffer chamber (LBC) with precision guides for UBC positioning safety-interlock lid with attached retractable-sheathed leads casting base (CB) blocking plate for running one gel replacement gasket set for UBC replacement gasket set for CB
<b>water cooled UBC</b>	Yes
<b>glass plates</b>	4 plain glass plates 4 notched glass plates
<b>combs</b>	(2) 1.5mm x 15-well (2) 1.5mm x 20-well
<b>side spacers</b>	(8) 1.5mm spacers

<b>system dimensions</b>	24H x 30W x 16D
<b>gel dimensions</b>	20W x 20L
<b>buffer volume</b>	1300ml
<b>gel volume</b>	25-49ml
<b>max samples / gel</b>	25
<b>max samples / run</b>	50
<b>maximum voltage</b>	600V
<b>current @ constant maximum voltage</b>	15-75mA per gel
<b>run time</b>	60-180min



**GALILEO**  
bioscience

**integrated electrophoresis systems**



## Vertical System Accessories

Consistent with Galileo's integrated system philosophy, a comprehensive range of accessories and supplies are available for all our vertical units.



### Glass plates

Precision cut glass plates fit both Galileo and other devices.

### Gel spacers

Precision thickness spacers for uniform gels and clean runs.

### Blocking & alumina heat transfer plates

For single gel runs, blocking plates seal the non-used side of the upper buffer chamber. Alumina plates fit behind the inner glass to prevent gel hot spots and uneven runs.

### Gel Casters

Gel casters allow pre-casting gels while the unit is running, and support casting two gels at once.

### Knobs & clamps

Extra knobs and clamps for all Galileo vertical gel units.

### Combs

Check for available combs under the individual unit listing that corresponds to the needed width. Combs are available in multi-channel configurations for quick gel loading.

## Vertical Gel Accessories

Casters	85-1010-GCS	Gel Casting Stand for casting 2x10cm W gels
	85-1614-GCS	Gel Casting Stand for casting 2x16cm W gels
	85-2010-GCS	Gel Casting Stand for casting 2x20cm W gels
	85-2020-GCS	Gel Casting Stand for casting 2x20cm W gels

Glass	85-1010-G10NG	Notched glass Plate, 10cmx10cmx0.24cm thick
	85-1010-G10PG	Plain glass Plate, 10cmx10cmx0.24cm thick
	85-2010-G10NG	Notched glass Plate, 20cmWx10cmLx0.32cm thick
	85-2010-G10PG	Plain glass Plate, 20cmWx10cmLx0.32cm thick
	85-1614-G14NG	Notched glass Plate, 16cmWx14cmLx0.32cm thick
	85-1614-G14PG	Plain glass Plate, 16cmWx14cmLx0.32cm thick
	85-2020-G20NG	Notched glass Plate, 20cmWx20cmLx0.32cm thick
	85-2020-G20PG	Plain glass Plate, 20cmWx20cmLx0.32cm thick

Spacers	85-1010-SP-0.8	10cm Side Spacers, 0.8mm thick, 2 per set
	85-1010-SP-1.5	10cm Side Spacers, 1.5mm thick, 2 per set
	85-1614-SP-0.8	14cm Side Spacers, 0.8mm thick, 2 per set
	85-1614-SP-1.5	14cm Side Spacers, 1.5mm thick, 2 per set
	85-2020-SP-0.8	20cm Side Spacers, 0.8mm thick, 2 per set
	85-2020-SP-1.5	20cm Side Spacers, 1.5mm thick, 2 per set

Alumina Plates Blocking Plates	85-1010-G10NA	Notched alumina backer plate for improved cooling, 10cmx10cmx0.10cm thick
	85-1010-BPL	10x10x Blocking Plate for running a single gel
	85-1614-BPL	16x14 Blocking Plate for running a single gel
	85-2010-BPL	20x10 Blocking Plate for running a single gel
	85-2020-BPL	20x20 Blocking Plate for running a single gel

Clamps	85-1010-CL	Replacement Clamps, 2 per set
	85-1614-CL	Replacement Clamps, 2 per set
	85-2010-CL	Replacement Clamps, 2 per set
	85-2020-CL	Replacement Clamps, 2 per set
Knobs	85-WKNB	Wing Knobs for Clamps, set of 4



**GALILEO**  
bioscience

**integrated electrophoresis systems**



## Insight™ Semi-Dry Blotting Systems

### Quick & Efficient

Quick transfer times make these systems ideal for the rapid and efficient transfer of nucleic acids and proteins from agarose or acrylamide gels.



### Two sizes to fit your needs:

Unit	91-1010-SD	91-2020-SD
Transfer area (cm)	11x11	21x21
Buffer volume (ml)	50	200

### Convenient & Versatile

Solid plate style electrodes assure even pressure and complete molecular transfer.

Galileo semi-dry electroblotters will accommodate most pre-cast gels, and for many larger format pre-cast gels, once the stacking area of the gel is removed the "working" area of will also fit easily into the devices.

Since only the transfer "sandwich" of gel, membrane and blotting papers must be kept wet, much less buffer is required than traditional tank transfer systems.

### Safe & Reliable

Interlocking safety lid prevents reverse orientation of electric filed. High quality plate electrodes (stainless steel cathode and platinum anode) and gold plated components assure long, trouble-free performance. System is supplied complete with power leads and a sample pack of our ultra-pure cotton fiber filter paper.

# Galileo Insight™ Semi-Dry Blotting Systems

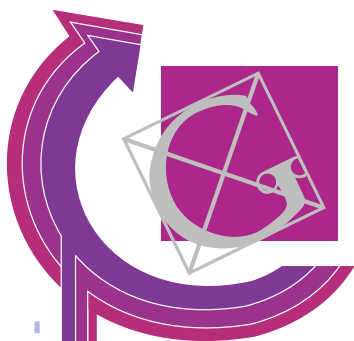
Semi-Dry Blotting Systems	91-1010-SD	Insight Mini Semi Dry Electroblotter, 11x11cm blotting area
	91-2020-SD	Insight Maxi Semi Dry Electroblotter, 21x21cm blotting area
	91-KNB	Replacement Knobs, 3/Set
	91-RPC	Replacement Power Cords

unit	91-1010-SD	91-2020-SD
system dimensions (cm)	19W x 19L x 6H	29W x 29L x 6H
transfer area (cm)	11 x 11	21 x 21
buffer volume	approx 50ml	approx 200ml
recommended voltage	<100 V	<100 V
recommended current	0.8-3mA per cm of gel surface area (constant)	0.8-3mA per cm of gel surface area (constant)
run time	30-60 minutes	30-60 minutes

## full-extension electrodes



Provide maximum transfer area for gels



**GALILEO**  
bioscience

#### integrated electrophoresis systems



## Insight™ Tank Blotting Systems

### High Performance

The Galileo Insight™ tank style electroblotters are designed to rapidly transfer a wide range of nucleic acids or proteins from acrylamide gels to nitrocellulose, nylon or PVDF membranes. Up to four gels can be transferred simultaneously.



### Two sizes to fit your needs:

Unit	91-1010-TB	91-2020-TB
Cassette size (cm)	9x9	18x20
Cassette capacity	4	2
Buffer volume (ml)	1300	4000

### Efficient & Versatile

Platinum grid style electrodes provide even field strength and assure even and complete molecular transfer.  
Color-coded cassettes for easy and correctly oriented assembly of transfer sandwich and error-free transfer.  
Systems accommodate up to four gel cassettes.  
Large buffer capacity and integral cooling permits high current for efficient and complete transfers of even “hard to transfer” proteins.

### Safe & Reliable

Interlocking safety lid prevents reverse orientation of electric field.  
Platinum grid style electrodes and gold plated components assure a long, trouble-free, performance life.  
System is supplied complete with power leads, four blotting cassettes and a sample pack of our ultra-pure cotton fiber filter paper.

## Galileo Insight™ Tank Blotting Systems

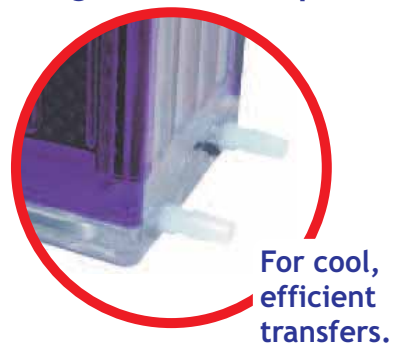
Tank Blotting Systems	91-1010-TB	Insight Mini Tank Blotter (10x10cm) with 4 cassettes
	91-2020-TB	Insight Maxi Tank Blotter (20x20cm) with 2 cassettes
	91-1010-TBCS	Transfer Cassette with Pads
	91-1010-BPD	Replacement Blotting Pads, 4 per pack
	91-2020-TBCS	Transfer Cassette with Pads
	91-2020-BPD	Replacement Blotting Pads, 2 per pack
	91-KNB	Replacement Knobs, 3/Set
	91-RPC	Replacement Power Cords

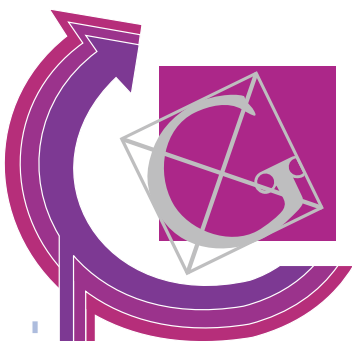
unit	91-1010-TB	91-2020-TB
system dimensions (cm)	13W x 15L x 15H	15W x 28L x 31H
transfer area (cm)	9 x 9	18 x 20
cassette capacity	4	2
buffer volume	1300ml	4000ml
recommended voltage	0-150 V	0-150 V
run time	4 hours - overnite	4 hours - overnite

### color-coded cassettes



### integrated buffer ports





**GALILEO**  
bioscience

**integrated electrophoresis systems**



## Electrophoresis Reagents

### Agarose

High quality & great value in molecular biology grade agarose.

agarose type	REA-2100	REA-3100	REA-4100
application	General Use	Small fragment resolution	Low Melt
compare range	SeaKem LE	NuSieve 3:1	SeaPlaque GTG
Resolve %	200 bp - 10 Kb	10-1000 bp	200 bp - 10 Kb
resolve bp	10%	1%	10%
	20-1000 bp	2-20 bp	20-1000 bp



MbQC-Grade = Molecular biology Quality Controlled, your guarantee of effective performance.

### Electrophoresis Buffers

Electrophoresis and blotting buffers  
Available in liquid form for the ultimate in ease of use. Or new dry pack formulations, for long storage life and quick availability. High quality & great value, from Galileo Bioscience.



### Ethidium & Specialty Reagents

Safe and convenient ethidium handling  
Ethidium dropper bottles reduce exposure  
De-staining bags for environmentally safe disposal  
Other reagents also available for lab efficiency and convenience.



## Galileo Electrophoresis Reagents

Agarose	REA-21025	Agarose: Universal MbQC, 25g
	REA-21100	Agarose: Universal MbQC, 100g
	REA-21500	Agarose: Universal MbQC, 500g
	REA-31025	Agarose: High Resolution MbQC, 25g
	REA-31100	Agarose: High Resolution MbQC, 100g
	REA-41025	Agarose: Low melt MbQC, 25g
	REA-41100	Agarose: Low melt MbQC, 100g

Dry Pack Buffers	REA-1001	TAE buffer 25X dry pack
	REA-1003	TBE buffer 10X dry pack
	REA-1005	TG-SDS buffer 10X dry pack
	REA-1007	TG buffer 10X dry pack
	REA-1009	PBS buffer 10X dry pack
	REA-1010	SSC buffer 10X dry pack
Liquid Buffers	REA-1002	TAE Buffer liquid concentrate
	REA-1004	TBE 10X liquid buffer
	REA-1006	TG-SDS buffer 10X liquid
	REA-1008	TG buffer 10X liquid

Specialty Reagents	REA-1013	R3 RNase Removal Reagent, 475ml
	REA-1014	EtBr Dropper Bottle, 10ml
	REA-1015	De-staining pouch, 25
	REA-1016	Acrylic cleaner, 8oz = 240ml

# Galileo Bioscience Ordering and Customer Satisfaction Policies

## Ordering

Call us if you would like to order. That way we can answer any questions you may have and provide you with the combs and accessories you need to make sure your system is complete, and fits your needs perfectly. The number is 1-877-481-9175, and our service hours are 9am-5pm Eastern (US) time.

## Payment

**Credit Card:** You may purchase using a credit card. We accept Visa and Mastercard.

**Purchase Order:** We accept purchase orders. Terms are 30 days net. Galileo Bioscience is a Gemini Scientific company. All orders should be made out to *Gemini Scientific Inc.*

**International Orders:** International customers using purchase orders must pay invoices via wire transfer. For international customers paying via standard wire transfer, orders less than USD 500.00 will be subject to a USD 20.00 service fee. Contact Galileo Bioscience at 781-481-9175 for further information.

## Shipping

Unless the customer requests otherwise, Galileo Bioscience will prepay and add shipping via UPS ground.

## Customer satisfaction

We want you to be completely satisfied with Galileo Bioscience. We endeavor to ship quality products on time and as you ordered. If you are dissatisfied or find a mistake with your order, please contact us. We will do everything possible to make it right for you. For further assistance call 1-877-481-9175

## Returns

Product returns will be accepted only within 30 days of shipment. Products will not be accepted without obtaining a Return Goods Authorization number (RGA#) from Galileo Bioscience. When calling for an RGA number please provide the appropriate invoice number, purchase order number, and date of order. We can be reached at 1-877-481-9175.

## Contact

Galileo Bioscience  
PO Box 390566  
Cambridge, MA 02139  
1-877-481-9175  
[www.galileobioscience.com](http://www.galileobioscience.com)

- galileo bioscience - integrated electrophoresis and blotting systems - 1-877-481-9175 -

Galileo Bioscience  
PO Box 390566  
Cambridge, MA 02139  
1-877-481-9175  
[www.galileobioscience.com](http://www.galileobioscience.com)