

**GALILEO**  
bioscience

integrated electrophoresis systems



- galileo biosciences - integrated electrophoresis and blotting 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.

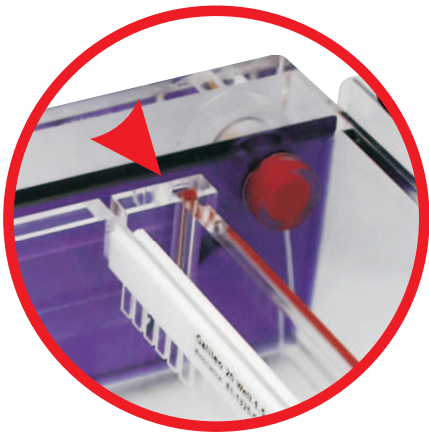
Turn tray crossways in the gel base to seal and pour.

Align with the platform to run.

No tape! No Leaks!

Fast & Efficient.

## ExpressCast™ gel casting technology



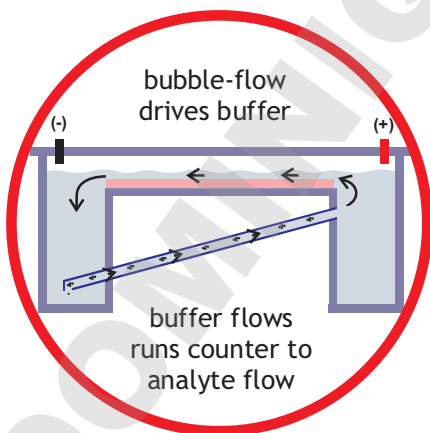
ExpressCast™ trays include end slots into which fit gasketed end gates, for easy in-tray gel casting.

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.



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vertical



horizontal



dry blot



tank blot

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## 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.

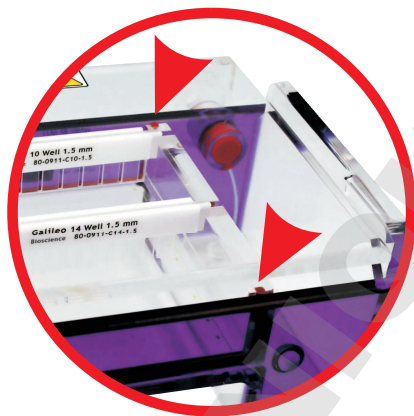
Your safety ensured with interlocking lid, protected sockets and permanently attached power cords.

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



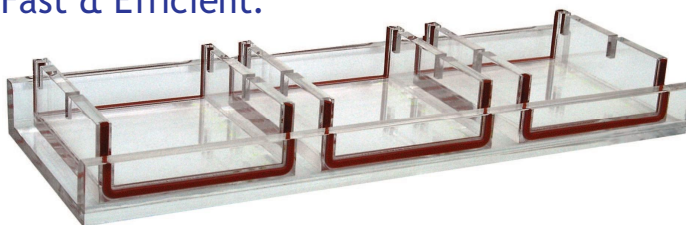
RapidCast™ Technology uses trays with incorporated end gaskets, to easily cast gels in the gel unit base.

Turn tray across gel platform to seal and pour.

Align with platform to run.

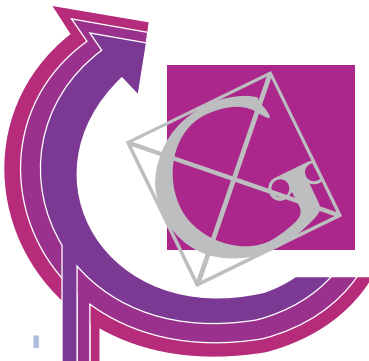
No tape! No Leaks!

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.





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## 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



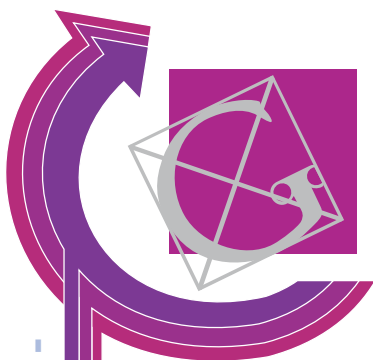
RapidCast™ Technology uses trays with incorporated end gaskets, to easily cast gels in the gel unit base

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

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
	80-0708-CPREP	Prep comb with 2 teeth, 1.5mm thick
Accessories	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)



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## 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)





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## 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

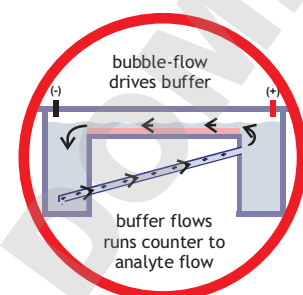
Turn tray across gel platform  
to seal and pour  
Align with platform to run  
No tape! No Leaks!  
Fast & Efficient

# 80-1214 RapidCast™ Mini Gel Systems

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

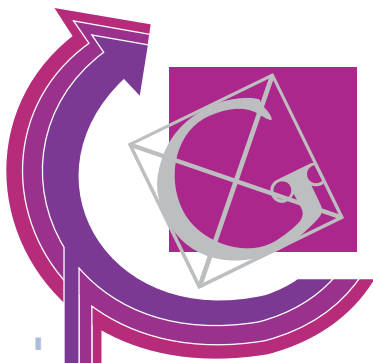
unit dimensions (cm)	18W x 24.5L x 9.5H
gel size (cm)	12W x 14L
buffer capacity	800ml
gel volume (0.5cm thick)	84ml
max sample capacity	100
max samples/full length run	25
electrode separation length	22.5cm
standard features	epoxy-sealed connections platinum electrodes non-slip feet
safety features	safety 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.



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## 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.

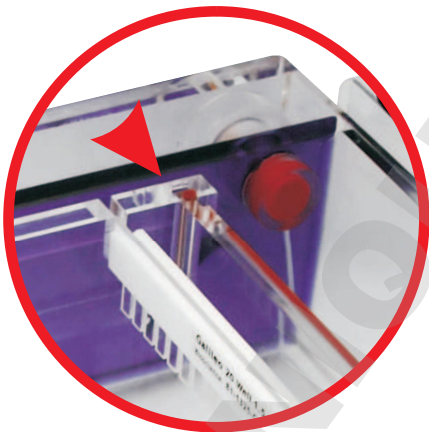
Your safety ensured with interlocking lid, protected sockets and permanently attached power cords.

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



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## 81-1515 ExpressCast™ Midi Gel System

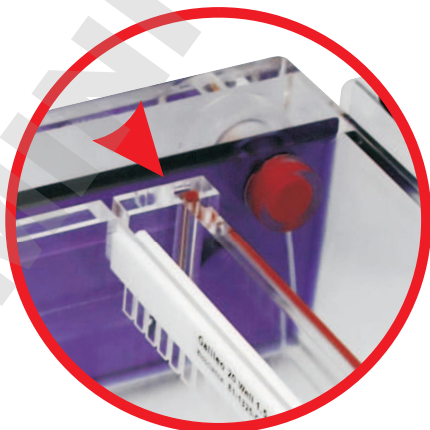
Galileo's new ExpressCast™ 80-1515 system is an ideal midi-gel unit for moderate thru-put sample analysis.



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

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)



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vertical



horizontal



dry blot



tank blot

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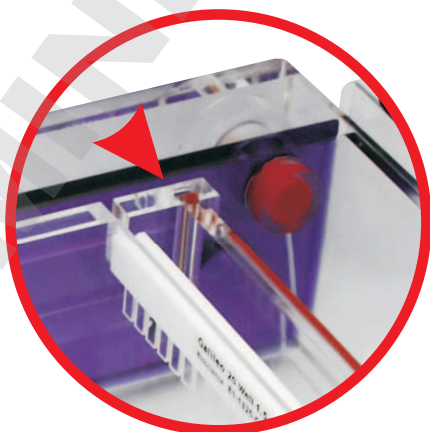
## 81-2314 ExpressCast™ Midi Gel System

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

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 cm L

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)



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## 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.

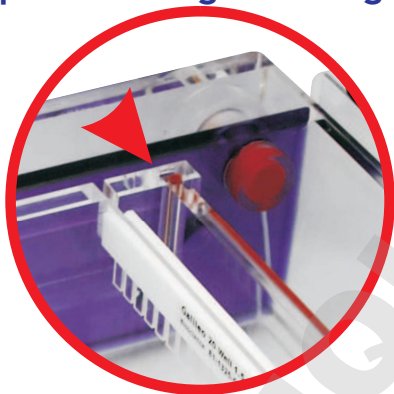
Your safety ensured with interlocking lid, protected sockets and permanently attached power cords.

Epoxy sealed electrode connections, resist corrosion and leaks.

Gold plated banana plugs.

Meets or exceeds IEC1010-1 standards.

### ExpressCast™ gel casting technology



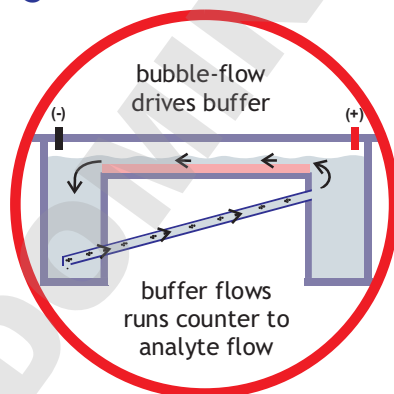
ExpressCast™ trays include end slots into which fit gasketed end gates, for easy in-tray gel casting.

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.





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vertical



horizontal



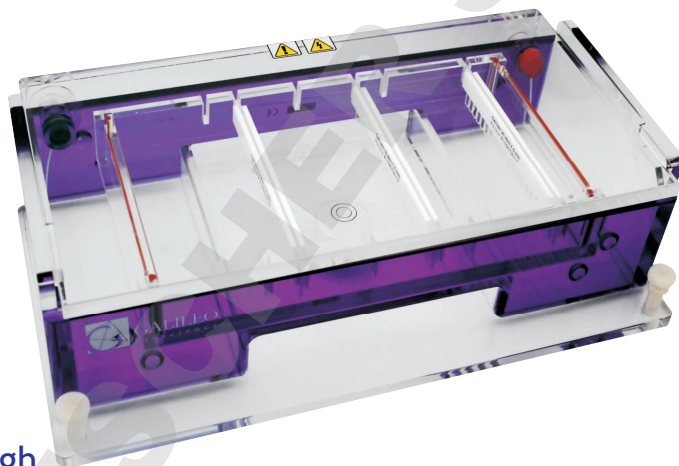
dry blot



tank blot

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## 81-1525 ExpressCast™ Maxi Gel System



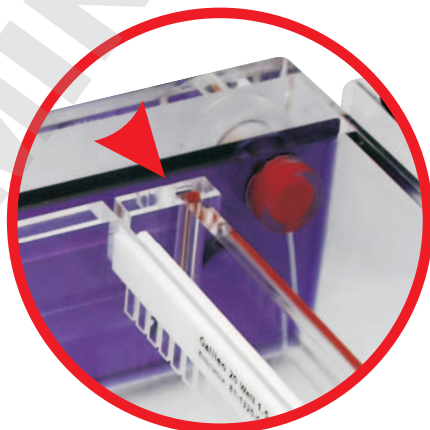
The Galileo ExpressCast™ 81-1525 provides a practical blend of high resolution and high thru-put and can accommodate an entire 96 well plate

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

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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)



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## 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.

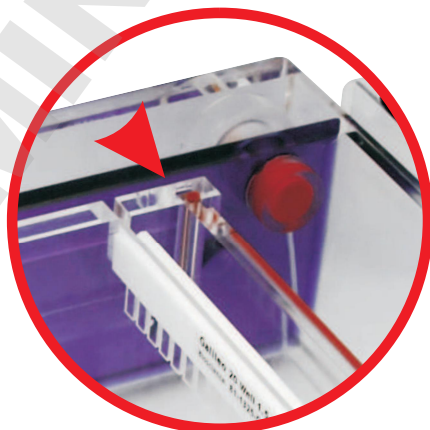
Three unit configurations are available including the new 81-2025-R which includes integrated automatic buffer recirculation for improved performance. Also available are the standard 81-2325 unit and the 81-2025-BEP device which includes buffer recirculation ports for connection to external buffer recirculation 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!

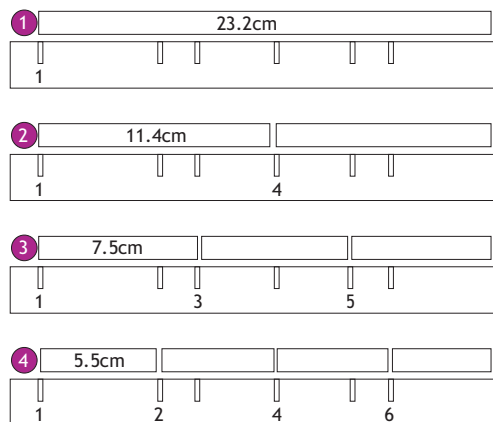
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# 81-2025 ExpressCast™ Maxi Gel Systems

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







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## 81-2325 ExpressCast™ Maxi Gel System



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

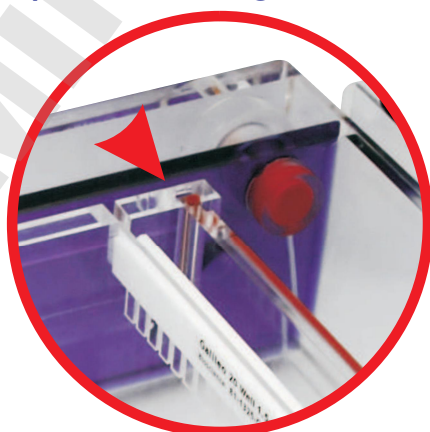
Three unit configurations are available including the new 81-2325-R which includes integrated automatic buffer recirculation for improved performance. Also available are the standard 81-2325 unit and the 81-2325-BEP device which includes buffer recirculation ports for connection to external buffer recirculation 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

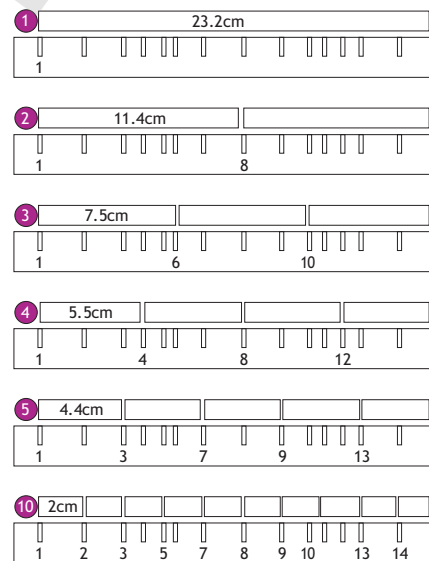


# 81-2325 ExpressCast™ Maxi Gel Systems

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





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## 81-2340 BEP ExpressCast™ Maxi Gel System



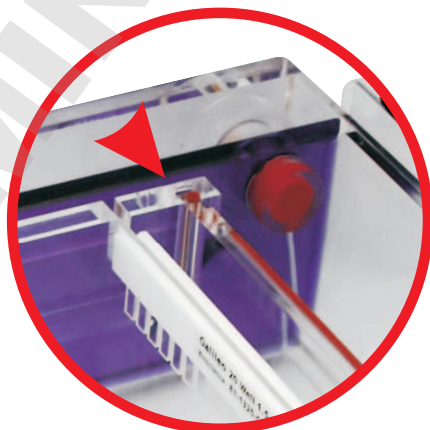
The ExpressCast™ 81-2340 can handle both very large numbers of samples, and long runs as well, providing both high resolution and high thru-put.

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

# 80-2340 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

