

**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.

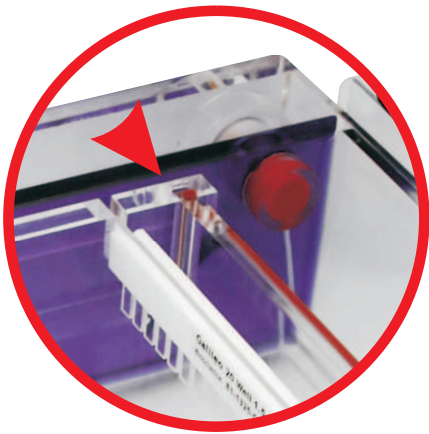
Turn tray crossways in the gel base to seal and pour.

Align with the platform to run.

No tape! No Leaks!

Fast & Efficient.

## ExpressCast™ gel casting technology



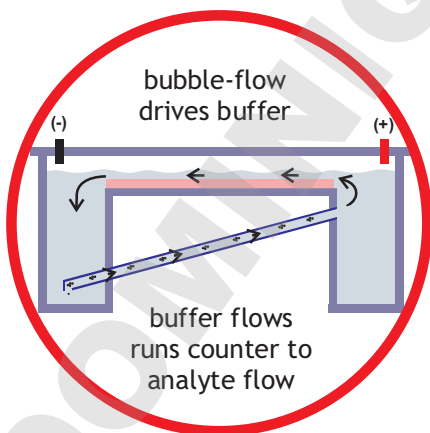
ExpressCast™ trays include end slots into which fit gasketed end gates, for easy in-tray gel casting.

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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## 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.

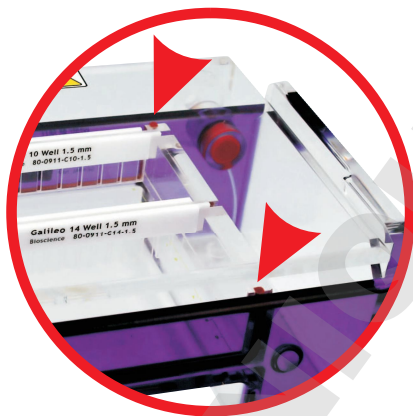
Your safety ensured with interlocking lid, protected sockets and permanently attached power cords.

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



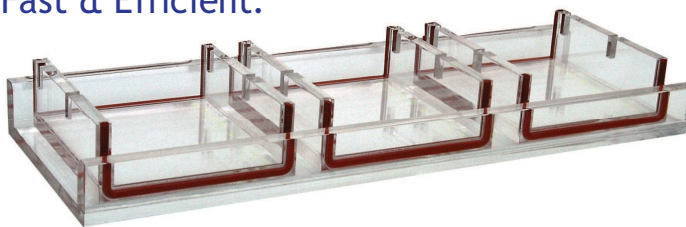
RapidCast™ Technology uses trays with incorporated end gaskets, to easily cast gels in the gel unit base.

Turn tray across gel platform to seal and pour.

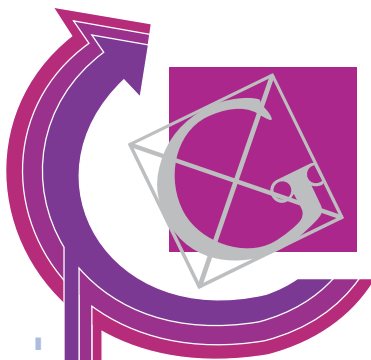
Align with platform to run.

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



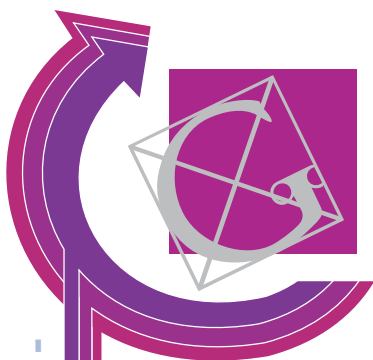
RapidCast™ Technology uses trays with incorporated end gaskets, to easily cast gels in the gel unit base

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<br>platinum electrodes<br>non-slip feet                              |
| safety features             | safety cover<br>sheathed power leads  |
| included tray               | RapidCast<br>UV transmissible<br>fluorescent ruler<br>2 comb slots                            |
| included combs              | 1.5mm, 6 & 10 well *  |
| options                     | optional buffer ports   |
| running conditions          | 60 volts<br>5 volts/cm of electrode separation or 110V<br>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<br>platinum electrodes<br>non-slip feet                              |
| safety features             | safety cover<br>sheathed power leads  |
| included tray               | RapidCast<br>UV transmissible<br>fluorescent ruler<br>2 comb slots                            |
| included combs              | 1.5mm, 10 & 14 well   |
| options                     | optional buffer ports   |
| running conditions          | 90 volts<br>5 volts/cm of electrode separation or 110V<br>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

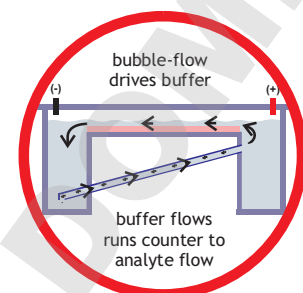
Turn tray across gel platform to seal and pour  
Align with platform to run  
No tape! No Leaks!  
Fast & Efficient

# 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<br>platinum electrodes<br>non-slip feet                               |
| safety features             | safety cover<br>sheathed power leads   |
| included tray               | RapidCast<br>UV transmissible<br>fluorescent ruler<br>4 comb slots                             |
| included combs              | 1.5mm, 12 & 20 well  |
| options                     | optional buffer ports or<br>NEW* automatic buffer recirculation                                |
| running conditions          | 115 volts<br>5 volts/cm of electrode separation or 110V<br>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.

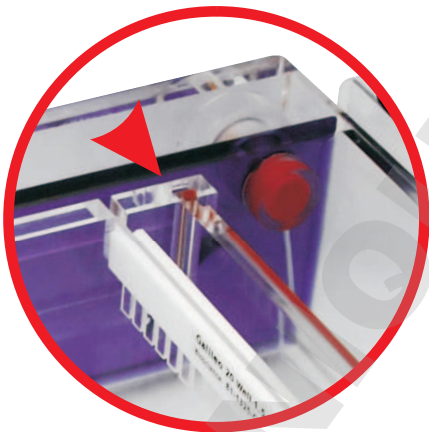
Your safety ensured with interlocking lid, protected sockets and permanently attached power cords.

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

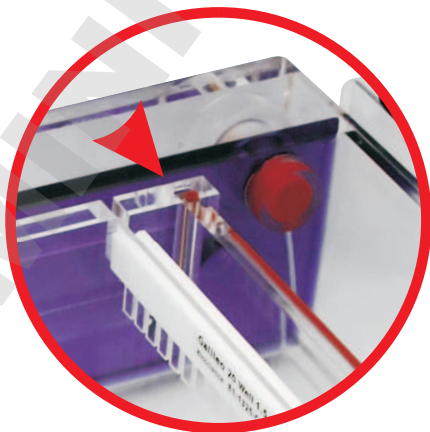


Galileo's new ExpressCast™ 80-1515 system is an ideal midi-gel unit for moderate thru-put sample analysis.

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<br>platinum electrodes<br>non-slip feet                               |
| safety features             | safety cover<br>sheathed power leads   |
| included tray               | RapidCast<br>UV transmissible<br>fluorescent ruler<br>4 comb slots                             |
| included combs              | 1.5mm, 2x17 & 2x34 well (4 total)  |
| options                     | optional buffer ports  |
| running conditions          | 120 volts<br>5 volts/cm of electrode separation or 110V<br>constant voltage (200V max voltage) |



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vertical



horizontal



dry blot



tank blot

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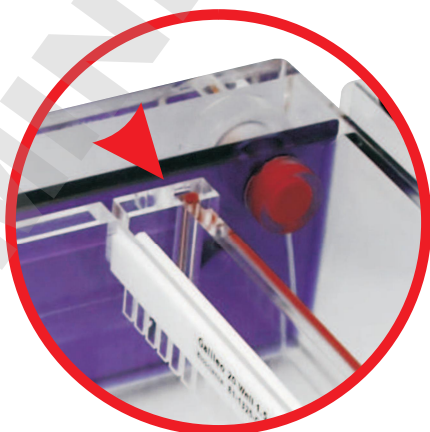
## 81-2314 ExpressCast™ Midi Gel System

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<br>platinum electrodes<br>leveling screws &<br>bubble level           |
| safety features             | safety cover<br>sheathed power leads   |
| included tray               | UV transmissible<br>fluorescent ruler<br>4 comb slots  |
| included combs              | 1.5mm, 4 x 50-well   |
| running conditions          | 120 volts<br>5 volts/cm of electrode separation or 110V<br>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.

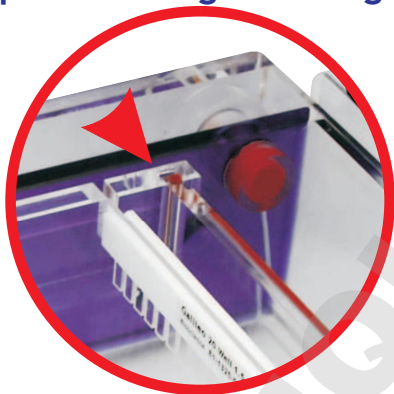
Your safety ensured with interlocking lid, protected sockets and permanently attached power cords.

Epoxy sealed electrode connections, resist corrosion and leaks.

Gold plated banana plugs.

Meets or exceeds IEC1010-1 standards.

### ExpressCast™ gel casting technology



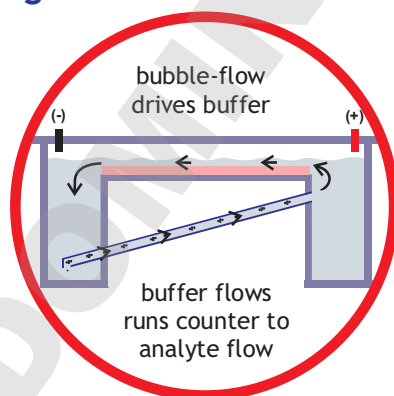
ExpressCast™ trays include end slots into which fit gasketed end gates, for easy in-tray gel casting.

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.



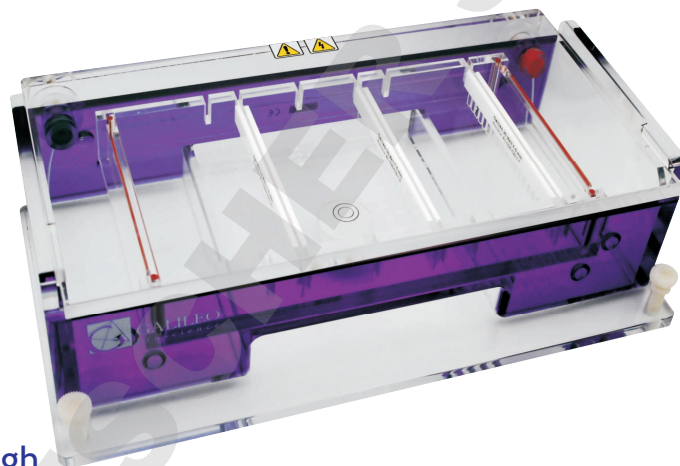
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## 81-1525 ExpressCast™ Maxi Gel System



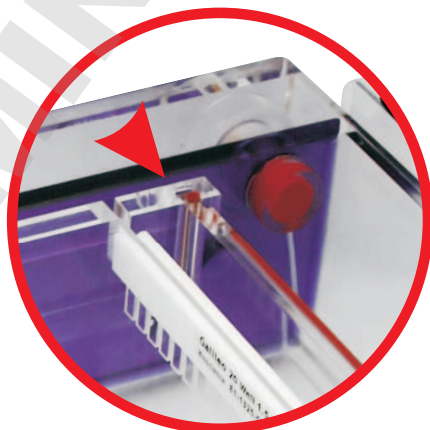
The Galileo ExpressCast™ 81-1525 provides a practical blend of high resolution and high thru-put and can accommodate an entire 96 well plate

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<br>platinum electrodes<br>leveling screws & level                     |
| safety features             | safety cover<br>sheathed power leads   |
| casting system              | Galileo ExpressCast<br>gasketed end gates  |
| included tray               | UV transmissible<br>4 comb slots   |
| included combs              | 1.5mm, 2x17 & 2x34 well, 4 combs total   |
| options                     | optional buffer ports  |
| running conditions          | 170 volts<br>5 volts/cm of electrode separation or 110V<br>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.

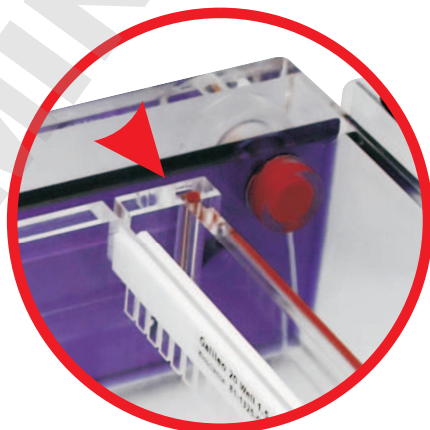
Three unit configurations are available including the new 81-2025-R which includes integrated automatic buffer recirculation for improved performance. Also available are the standard 81-2325 unit and the 81-2025-BEP device which includes buffer recirculation ports for connection to external buffer recirculation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

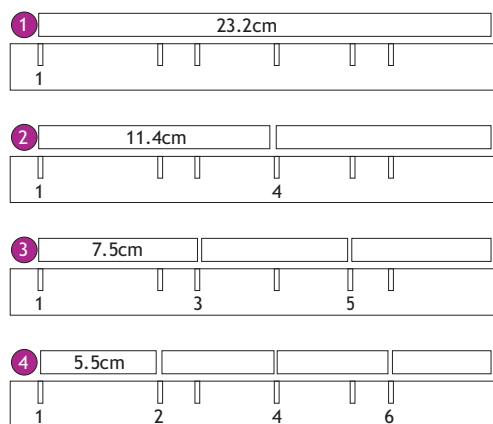
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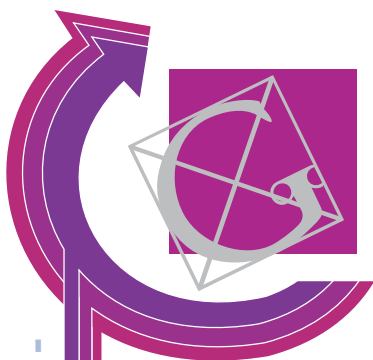
# 81-2025 ExpressCast™ Maxi Gel Systems

|             |                                     |  |
|-------------|-------------------------------------|--|
| 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<br>platinum electrodes<br>leveling screws & bubble level              |
| safety features             | safety cover<br>sheathed power leads   |
| casting system              | Galileo ExpressCast<br>gasketed end gates  |
| included tray               | UV transmissible<br>6 comb slots   |
| included combs              | 1.5mm, 16, 24 & 36 well  |
| options                     | optional buffer ports or<br>automatic buffer recirculation                                     |
| running conditions          | 170 volts<br>5 volts/cm of electrode separation or 110V<br>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.

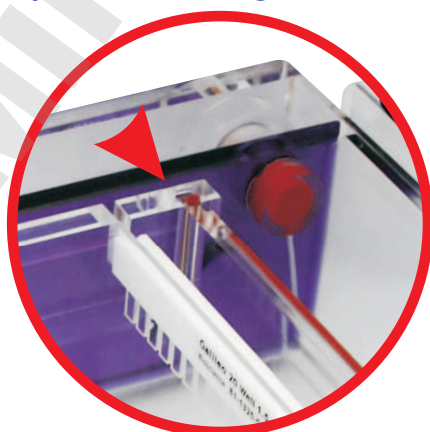
Three unit configurations are available including the new 81-2325-R which includes integrated automatic buffer recirculation for improved performance. Also available are the standard 81-2325 unit and the 81-2325-BEP device which includes buffer recirculation ports for connection to external buffer recirculation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

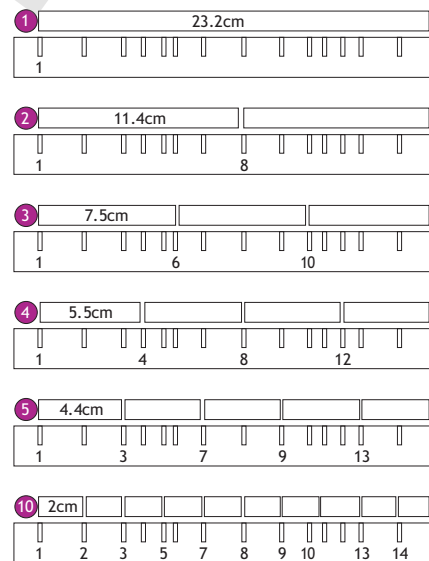
Fit end gates into trays for a quick and leak-proof seal.  
No tape! No Leaks!  
Fast & Efficient

# 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<br>platinum electrodes<br>leveling screws & bubble level              |
| safety features             | leveling screws & bubble level   |
| included tray               | UV transmissible<br>14 comb slots  |
| included combs              | 1.5mm, 2ea 25 & 50 well  |
| options                     | optional buffer ports or<br><b>NEW</b> automatic buffer recirculation                          |
| running conditions          | 170 volts<br>5 volts/cm of electrode separation or 110V<br>constant voltage (200V max voltage) |

## Run Length Options for 2325 Unit







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## 81-2340 BEP ExpressCast™ Maxi Gel System



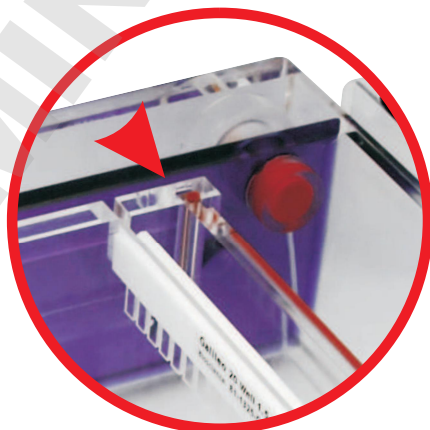
The ExpressCast™ 81-2340 can handle both very large numbers of samples, and long runs as well, providing both high resolution and high thru-put.

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<br>platinum electrodes<br>leveling screws & level<br><b>includes buffer ports</b> |
| safety features             | safety cover<br>sheathed power leads   |
| included tray               | UV transmissible<br>12 comb slots  |
| included combs              | 1.5mm, 2ea 25 & 50 well  |
| running conditions          | 200 volts<br>5 volts/cm of electrode separation or 110V<br>constant voltage (200V max voltage)             |

## Run Length Options for 2340 Unit

