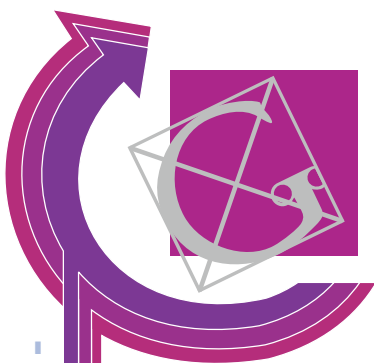




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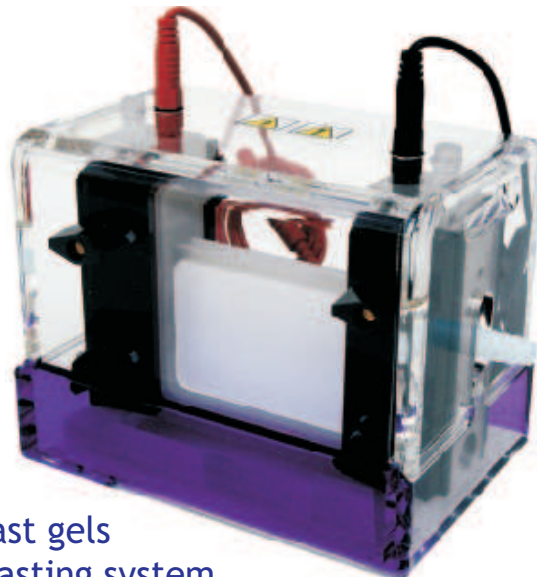
integrated electrophoresis systems



Reflection™ Twin Vertical Gel Systems

High Performance

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



Four sizes to fit your needs:

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

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

Convenient & Versatile

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

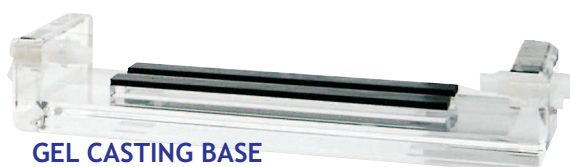
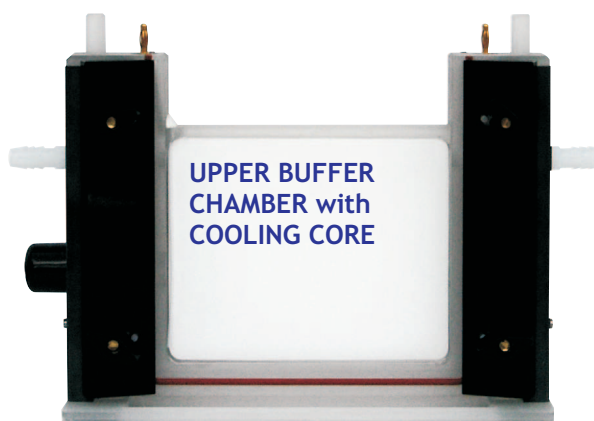
Safe & Reliable

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

Galileo vertical systems comparison chart

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

Galileo vertical systems components



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

Reliable clamping system

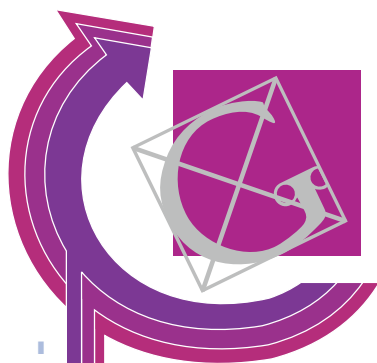


For leak-free gel running and casting.

3-Cathode power system



For uniform field and straight lanes.



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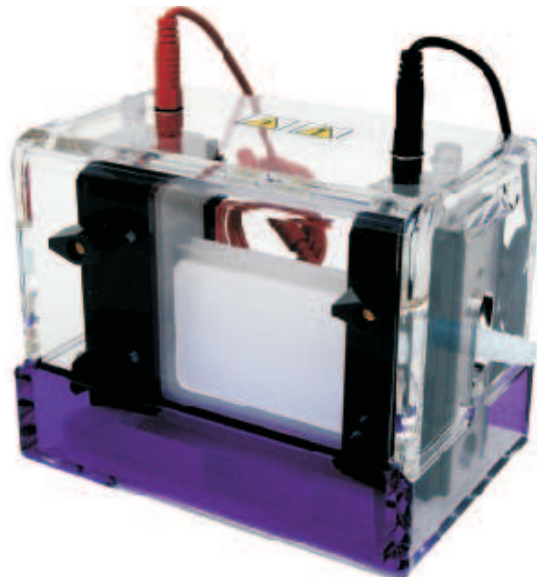
integrated electrophoresis systems



Reflection™ 85-1010 Twin Mini Vertical Gel System

High Performance

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



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

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

Reliable clamping system



For leak-free
gel running
and casting.

3-Cathode power system



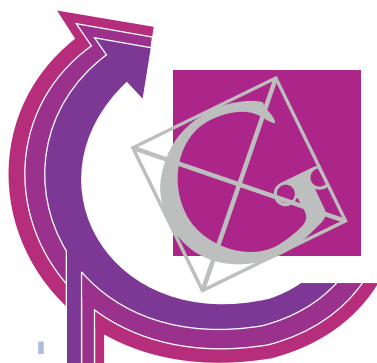
For uniform
field and
straight lanes.

85-1010 Reflection™ Mini Vertical Gel Systems

1010 Systems	85-1010-NCS	Reflection Mini Twin Vertical System w/out water cooling
	85-1010-WCS	Reflection Mini Twin Vertical System w/ water cooling
1010 Combs	85-1010-C6-0.8	6 Well Comb for 1010, 0.8mm thick
	85-1010-C6-1.5	6 Well Comb for 1010, 1.5mm thick
	85-1010-C8-0.8	8 Well Comb for 1010, 0.8mm thick
	85-1010-C8-1.5	8 Well Comb for 1010, 1.5mm thick
	85-1010-C10-0.8	10 Well Comb for 1010, 0.8mm thick
	85-1010-C10-1.5	10 Well Comb for 1010, 1.5mm thick
	85-1010-C12-0.8	12 Well Comb for 1010, 0.8mm thick
	85-1010-C12-1.5	12 Well Comb for 1010, 1.5mm thick
	85-1010-C15-0.8	15 Well Comb for 1010, 0.8mm thick
	85-1010-C15-1.5	15 Well Comb for 1010, 1.5mm thick
	85-1010-CMT9-0.8	9 Well Comb for 1010, 0.8mm thick Microtiter 1X format
	85-1010-CMT9-1.5	9 Well Comb for 1010, 1.5mm thick Microtiter 1X format
1010 Accessories	85-1010-CMT15-1.5	15 Well Comb for 1010, 1.5mm thick, Microtiter 2X format
	85-1010-CMT15-0.8	15 Well Comb for 1010, 0.8mm thick, Microtiter 2X format
	85-1010-UBC-NC	Non-cooled Upper Buffer chamber only
	85-1010-UBC-WC	Water-cooled upper buffer Chamber only
	85-1010-GCB	Gel Casting Base, Use with Upper Buffer Chamber
	85-1010-GCS	Gel Casting Stand, works without Upper Buffer Chamber
	85-1010-G10NG	Notched glass Plate, 10cmx10cmx0.24cm thick
	85-1010-G10PG	Plain glass Plate, 10cmx10cmx0.24cm thick
	85-1010-BPL	Blocking Plate for running a single gel
	85-1010-G10NA	Notched alumina backer plate for improved cooling
	85-1010-SP-0.8	Side Spacers, 0.8mm thick, 2 per set
	85-1010-SP-1.5	Side Spacers, 1.5mm thick, 2 per set
	85-1010-WK	Wing knobs, pk of 4, (Fits all vertical systems)
	85-1010-CL	Replacement Clamps, pk of 2
	85-1010-CBGSK	Replacement Gasket Set, Casting Base, pk of 2
	85-1010-GSK	Replacement Gasket Set, Upper Buffer Chamber, pk of 2

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

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

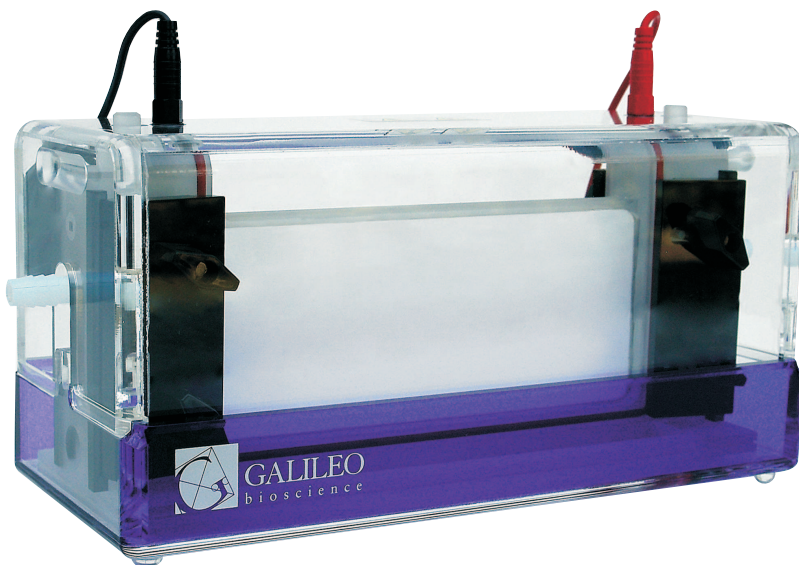


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Reflection™ 85-2010 Wide Mini Twin Vertical Gel Systems



High Performance

- Runs one or two gels.
- Rugged trouble-free construction.
- Wide format accomodates large sample numbers.
- Unique electrode configuration for straight, rapid runs.
- Efficient temperature regulation prevents band distortion.
- Rapid and efficient gel casting system.
- Wide range of combs and accessories available.

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

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

Reliable clamping system



For leak-free
gel running
and casting.

3-Cathode power system



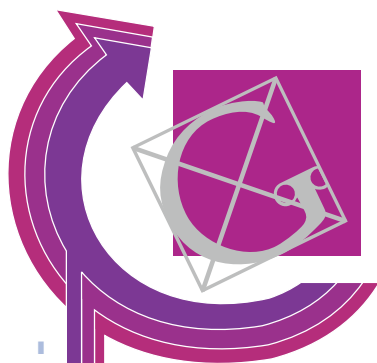
For uniform
field and
straight lanes.

85-2010 Reflection™ Wide Mini Vertical Gel Systems

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

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

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



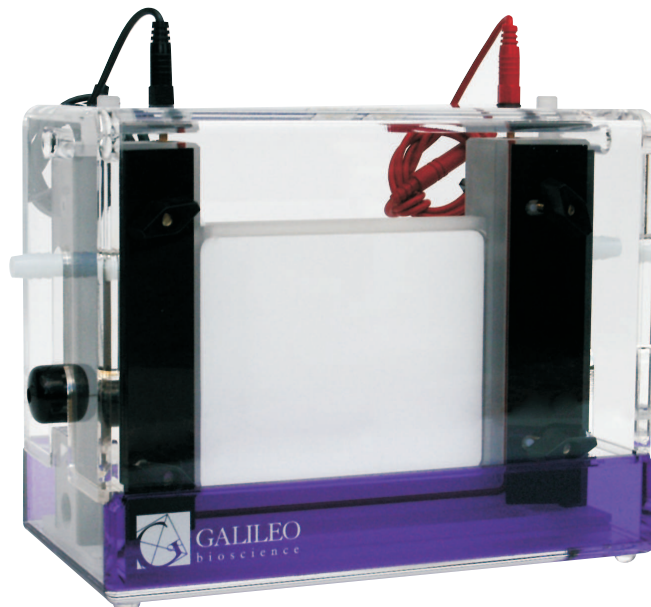
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Reflection™ 85-1614 Midi Twin Vertical Gel Systems

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



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

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

Gel cooling ports



For upper
chamber and
gel cooling.

3-Cathode power system



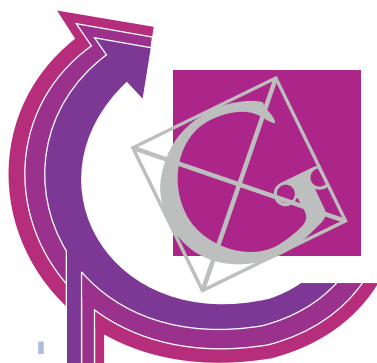
For uniform
field and
straight lanes.

85-1614 Reflection™ Midi Vertical Gel Systems

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

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

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



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Reflection™ 85-2020 Maxi Twin Vertical Gel Systems

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



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

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

Gel cooling ports



For upper
chamber and
gel cooling.

3-Cathode power system



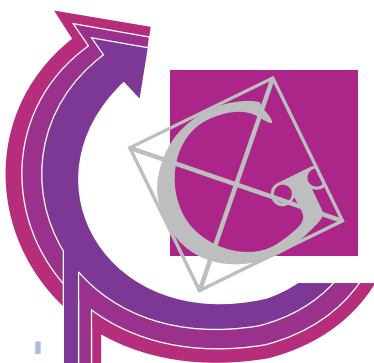
For uniform
field and
straight lanes.

85-2020 Reflection™ Maxi Vertical Gel Systems

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

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

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



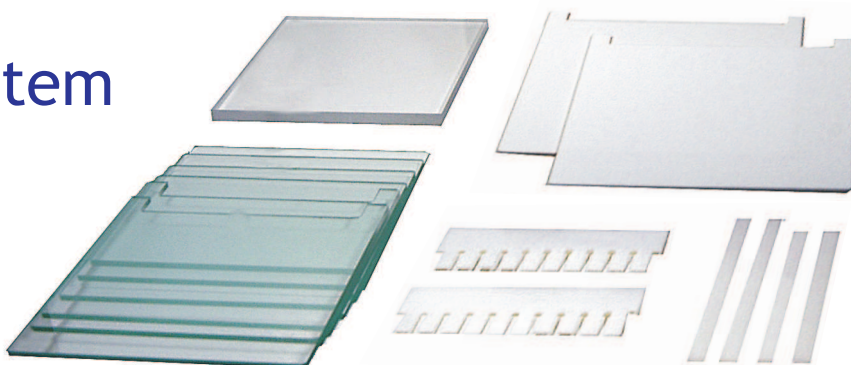
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Vertical System Accessories

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



Glass plates

Precision cut glass plates fit both Galileo and other devices.

Gel spacers

Precision thickness spacers for uniform gels and clean runs.

Blocking & alumina heat transfer plates

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

Gel Casters

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

Knobs & clamps

Extra knobs and clamps for all Galileo vertical gel units.

Combs

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

Vertical Gel Acessories

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

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

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

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

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