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Electrophoresis

From horizontal gel systems for nucleic acids analyses to vertical gel systems for protein studies, Thermo provides modern researchers an extensive line of electrophoresis chambers to meet their needs

Electrophoresis is the most common method of analytical separation of bio-macromolecules (e.g. nucleic acids and proteins).

It is the migration of charged molecules within an electric field, with positively charged molecules toward the cathode (-) and negatively charged molecules toward the anode (+).

Electrophoresis in a gel medium can cut down sample diffusion and convection currents while providing sharper banding and higher resolution compared to electrophoresis in liquid medium.



Electro-4 Electro-phoresis System

► **Benefits**

- **Run four gels in one compact unit**
- **Accommodates Electro-4 mini, midi and maxi size gels**
- **Simple tape-free casting**
- **Capacity for over 200 samples**
- **UV transparent gel trays**
- **Provision for capillary and rapid centrifugal blotting**

Thermo's unique Electro-4 design allows "4 gels in one tank" electrophoresis. By using the Electro-4 it is possible to run 200 samples or more in one compact gel tank, by stacking up to four horizontal gels. To ensure even migration, the electrode height is adjustable according to the number of gels being run. Ideal for high throughput procedures, an added benefit is the ability to load samples directly from 96 well plates using a multichannel pipette.

Gel Casting

Leak-proof gel casting is provided by simple clip-on end dams, which also allow easy levelling. The dual format combs slot positively into position to ensure the teeth are always vertical and at the correct depth for perfect well formation. The combs may be positioned at 1cm intervals for variable gel lengths or multiple runs.

Gel Blotting of Electro-4 Gels

All the accessories are provided to enable capillary blotting of Electro-4 gels in two to three hours, following a run. Centrifugal blotting can also be performed in as little as 20 minutes, since the midi gel trays are the same size as most 96 well plates and will fit standard rotors.



Electro-4 Electrophoresis System Ordering Information

Product	Catalogue Number
Electro-4 System, each Electro-4 system is supplied complete with: 4 midi casting trays (120mm x 90mm), 8 gel tray end dams, 4 x double sided 18/8 sample gel combs, 4 x double sided 12/1 sample gel combs, 8 channel helper to aid with loading, shrouded power leads, H spacer, 4 blotting sponges, spirit level, loading mat	HBE4GT
Accessories	
Mini casting tray	HBE4CTN
Midi casting tray	HBE4CTD
Maxi casting tray	HBE4CTX
Gel tray end dams (set of 4)	HBE4ED4
Dual format comb (18/8; 1.5mm)	HBE4C1
Dual format comb (12/1; 1.5mm)	HBE4C2

Primo™ Horizontal Gel Systems



► Benefits

- High quality injection molded chambers are seamless. This eliminates the possibility of leakage around glued or bonded joints, providing a lifetime of leak-free service.
- Unique temperature resistant gel tray permits you to pour agarose without waiting long for it to cool. Just remove from microwave, cool to 85 °C, and pour – a real time saver.
- Molded rubber end blocks make casting simple. Press them on, cast your gel, and pull them off – it's as simple as that. In addition, every Primo gel tray is resistant to alcohol, for RNase removal.
- A built-in level and non-skid leveling feet are provided to ensure level operating conditions. When casting, this creates a uniform gel thickness. When running, it ensures an even buffer level.
- Bright, easy-to-read rule makes photography easy, and it won't come off if you clean the tray with alcohol.
- Full package saves money – Each Primo chamber comes complete with all accessories without the extra cost. There is no need to purchase each accessory separately.
- Stackable-leads are unconnected on the side allowing stacking gel one top of the other.

Small Submarine Gel System

Small Submarine Gel System Ordering Information

Product	Catalogue Number
Includes: main chamber, (1) 6.5 x 10 cm UV-transparent Primo gel tray with fluorescent metric rule, (2) gel tray end blocks, (2) 8/12-well combs with reference well (1mm), (2) 1/4-well combs with reference well (1mm), (2) comb holders, (2) well former depth/leveling gauges, safety cover with leads and instructions.	EC320

Accessories for EC320

Product	Catalogue Number
8/12-well comb with reference well, 1 mm	EC376P
1/4-well comb with reference well, 1 mm	EC378P
8/12-well comb, 1.5 mm	EC383D
1/4-well comb, 1.5 mm	EC384D
8 x 10 cm Primo gel tray with rule	EC327P
Gel tray end blocks, 2/pk	EC373
Well former depth/leveling gauge, 2/pk	EC374
Comb holder for 6.5 x 10 cm Primo gel tray	EC375P

Mid-Sized Submarine Gel System EC330 Primo Midicell®

Mid-Sized Submarine Gel System EC330 Primo Midicell Ordering Information

Product	Catalogue Number
Includes: main chamber, (1) 20 x 10 cm UV-transparent Primo gel tray with fluorescent metric rule, (2) gel tray end blocks, (2) 40/22-well combs (1 mm), (2) 10/2-well combs (1 mm), (2) comb holders, (2) well former depth/leveling gauges, safety cover with leads and instructions.	EC330

Large Submarine Gel System EC330 Primo™ Midicell®

Large Submarine Gel System EC330 Primo Midicell Ordering Information	
Product	Catalogue Number
Includes: main chamber, (1) 20 x 20 cm UV-transparent Primo gel tray with fluorescent metric rule, (2) gel tray end blocks, (2) 40/22-well combs (1 mm), (2) 10/2-well combs (1 mm), (2) comb holders, (2) well former depth/leveling gauges, safety cover with leads and instructions.	EC340

Accessories for EC330 & EC340 Ordering Information	
Product	Catalogue Number
20 x 20 cm Primo Maxicell gel tray with rule (for the EC340 only)	EC332
20 x 10 cm Primo Midicell gel tray with rule	EC338
44/22-well Microtiter(r) comb, 2.0mm (microplate compatible)	EC347
40/22-well comb, 1mm	EC387P
10/2-well comb, 1mm	EC388P
40/22-well comb, 1.5mm	EC390D
10/2-well comb, 1.5mm	EC391D
Gel tray end blocks, 2/pk	EC363
Well former depth/leveling gauge, 2/pk	EC364
Comb holder for Primo gel tray	EC335P

EC120 Mini Vertical Gel System

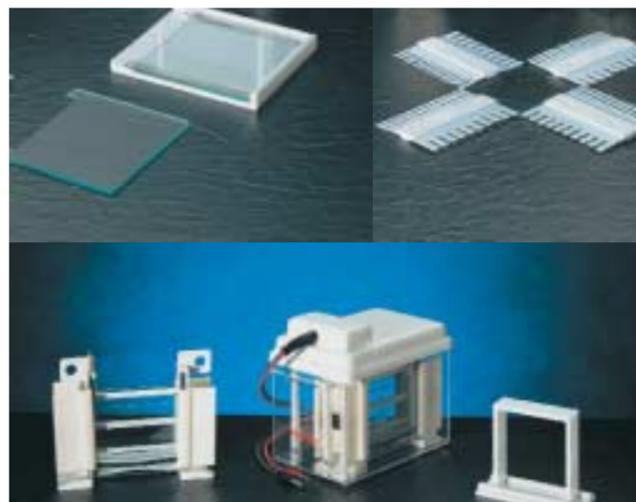
► Benefits

Designed to run up to 4 gels at a time!

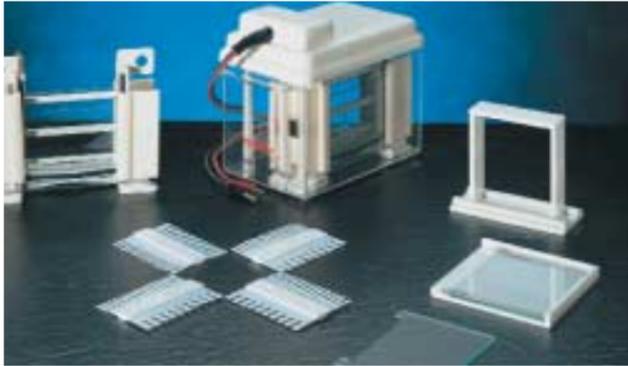
- Comes complete with everything required to cast and run two gels (7 x 8cm) and is upgradeable to a four-gel system at any time. Leak-Free Design!
- The heart of the EC120 is its innovative, self-adhering, no-slip spacers. Using this patented technology, the user can quickly assemble a leak-free glass cassette, greatly simplifying the entire process. Thick Glass For Less Breakage!
- The system utilizes a glass thickness of 2 mm, reducing breakage and expenses.

Quick and Easy with Pre-Cast Gels!

- Simply place one gel on each side of the running frame, slide on the two clamps and place the running frame in the tank. The entire process takes less than one minute. The system will accommodate 10 x 8 cm and 10 x 10 cm pre-cast gels from various manufacturers.



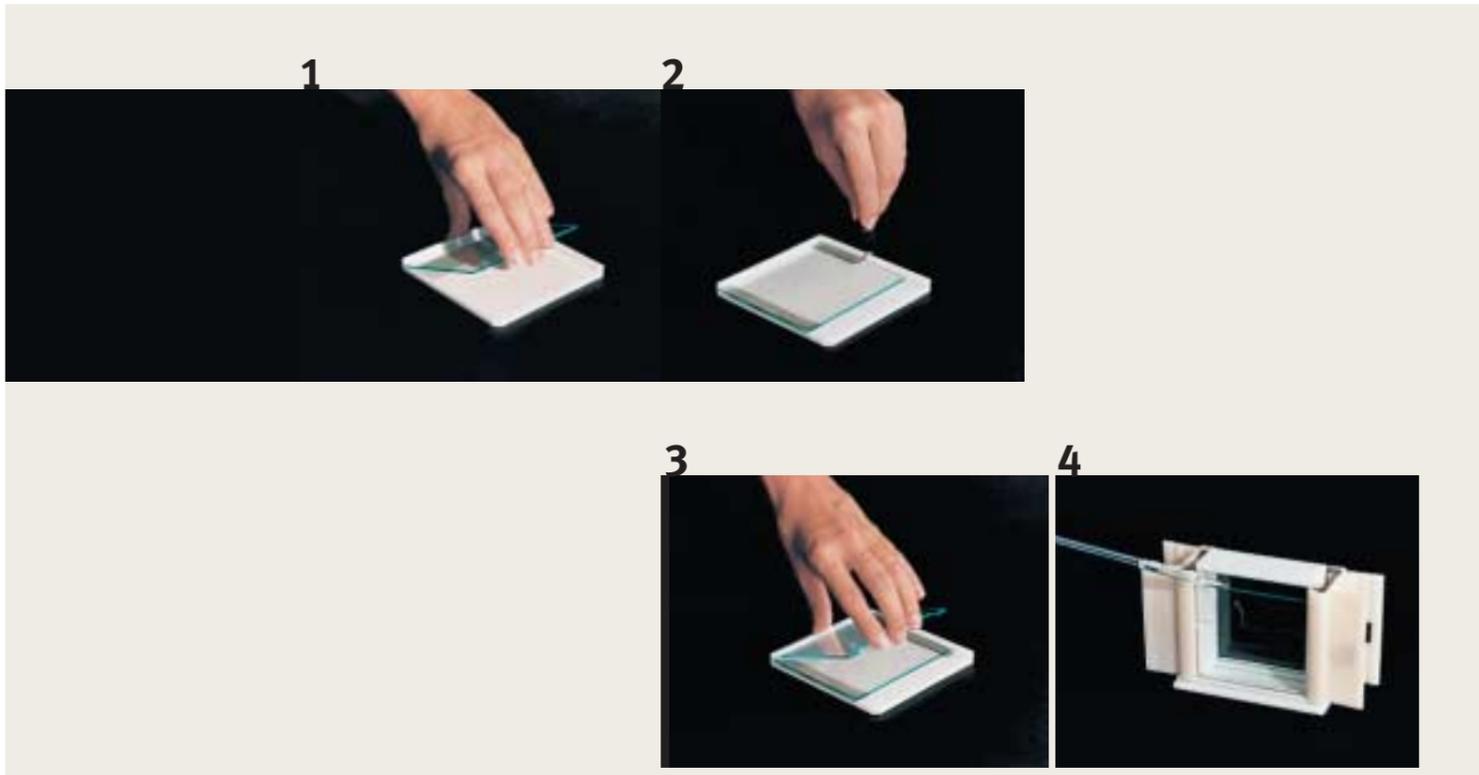
EC120 Mini Vertical Gel System



EC120 Mini Vertical Gel System Ordering Information

Description	Catalogue Number
2-Gel Mini-Vertical Gel System which includes: 1 outer tank, (1) 2-place running frame, 1 safety cover, 1 spacer alignment tool, 1 casting stand, (2) 10/15-well 0.75mm combs, 2 sets of glass plates, (4) 0.75mm spacers, 1 blank plate, 2 clamps and instructions.	EC120-2
4-Gel Mini-Vertical Gel System which includes: 1 outer tank, (2) 2-place running frames, 1 safety cover, 1 spacer alignment tool, 2 casting stands, (4) 10/15-well 0.75mm combs, 4 sets of glass plates, (8) 0.75mm spacers, 1 blank plate, 4 clamps and instructions.	EC120-4
Replacement outer tank	EC121
2-Place running frame	EC122
Replacement safety cover	EC123
Spacer alignment tool	EC124
2-Gel casting stand	EC125
2- Gel metal casting frame for solvents	EC125M
1/8 well dual comb, 0.5mm	EC128A
1/8 well dual comb, 0.75mm	EC127A
1/8 well dual comb, 1mm	EC126A
1/8 well dual comb, 1.5mm	EC129A*
10/15 well dual comb, 0.5mm	EC128B
10/15 well dual comb, 0.75mm	EC127B
10/15 well dual comb, 1mm	EC126B
10/15 well dual comb, 1.5mm	EC129B*
0.5mm Spacer, 2 each	EC130C
0.75mm Spacer, 2 each	EC130B
1mm Spacer, 2 each	EC130A
1.5mm Spacer, 2 each	EC130D†
Glass plate set including 1 notched plate and 1 rectangular plate	EC131A
5 Glass plates, notched	EC131B
5 Glass plates, rectangular	EC131C
Standard clamps, 2 each	EC132
Clamps for 1.5mm spacers and Novex® gels, 2/pkg.	EC132A*
Clamps for thin cassettes, 2/pkg.	EC132B
Basic 8-Gel Multicaster including: 8-place casting stand, spacer plates, 2 clamps, and 15 Mylar® separator sheets.	EC133A
Deluxe 8-Gel Multicaster including: 8-place casting stand, spacer plates, 2 clamps, 15 Mylar separator sheets and 8 sets of glass plates.	EC133B
Mylar separator sheets for the EC133 Multicaster, 25 each	EC134
Set of spacer plates for the EC133 Multicaster	EC136
Blank plastic plate, 10 x 8cm	EC136A
Blank plastic plate, 10 x 10cm (for 10 x 10 precast gels)	EC136B†
Replacement gasket kit for the EC122	EC137
Replacement gasket for the EC125	EC137A
Replacement gasket for the EC133	EC138
2-Gel Mini Blot Module for the EC120	EC140
Scotch-Brite™ pads, 3 each	EC141

Gel Casting System EC120



1

2

3

4

The secret to leak-free gel casting – Thermo EC’s unique gel casting system

Fig.1 Place bottom glass plate on spacer alignment tool.

Fig.2 Press top plate on to form gel sandwich. Self-adhering spacers hold glass plates together for easy handling.

Fig.3 Correctly position self-adhering spacers on glass plate. Place gel sandwich on gel casting stand for leak-free casting.

Fig.4 Self-adhering spacers prevent leakage from sides. Gasket material prevents leakage from the bottom. Since gel running frame is not used in casting, additional gels may be cast while gels are running in chamber.

For more information of the EC gel tanks and power supplies visit www.thermo.com/ec or email ec_info@thermosavant.com

High Voltage Non-Programmable EC2060, EC600-90, EC6000-90

These three high voltage non-programmable power supplies are versatile, easy-to-use and powerful!

- Each model operates in constant voltage, current or power with automatic crossover for maximum flexibility.
- Unique dual-function up/down timer accrues elapsed time, or counts down to shut-off, so you always know exactly how long the gel is running.
- Safety protection features include an advanced ground leakage detection system and a "shut-down-on-disconnect" feature that disables the output when the last chamber is disconnected.
- Designed for high voltage applications, such as sequencing and isoelectric focusing (IEF), and may also be used for SDS-PAGE, submerged RNA/DNA gels and native protein separation.



Mid Range Voltage EC135-90, EC570-90, EC1000-90

Designed for maximum versatility and ease-of-use!

- A dual function 100 hour timer provides the user with effective time management. Set the timer to count down and end the experiment, or accrue elapsed time as the experiment progresses.
- Holding voltage is a unique feature that simplifies every experiment. It provides the operator with the option of applying a small voltage to the gel at the end of a timed run. This minimizes sample diffusion prior to disassembling the apparatus. With holding voltage there is no need to rush to the next step in the process.

EC135-90 – The model EC135-90 is an inexpensive 500 volt, 500 milliamp, 250 watt power supply ideally suited for most general purpose protein and nucleic acid electrophoresis.

EC570-90 – The model EC570-90 is a 500 volt power supply capable of generating up to 2500 milliamps (high current) and 325 watts, more than enough voltage for standard PAGE, and more than enough current for multiple Western transfers and tank blotting.

EC1000-90 – Capable of producing up to 1000 volts, 1250 milliamps or 325 watts, the EC1000-90 provides more than enough voltage for small protein focusing experiments and enough current for Western transfer experiments. Most versatile unit in this class.



EC570-90



EC135-90



EC1000-90

High Voltage Programmable EC2060P, EC4000P, EC6000P

Supports a wide range of applications!

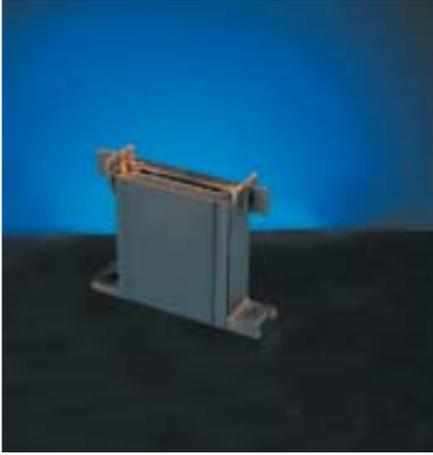
- Applications include from submerged gel electrophoresis and SDS-PAGE, to DNA Sequencing and Multiple Step IEF.
- All models operate in constant voltage, current or power operating modes with automatic crossover between modes.
- Feature large LCD screen to display complete operating information on one screen. A large LED voltage read-out is provided so this critical parameter can be easily seen – for convenience and safety.
- Three different operating modes are available-run (simple set function), Integrate (built-in volt-hour, watt-hour, milliamp-hour integrator function) and Program (store up to 20 programs with up to 10 steps each).



Programmable Specification							
Model No.	Maximum Voltage (V)	Maximum Current (mA)	Maximum Power (W)	Constant Modes	Timer	Dimensions W x D x H (in.)	Weight, lbs Net (shipping)
EC105	250	300/500	75	Voltage	-	8 x 6 x 4.5	5 (7)
EC250	250	250	125	Voltage or Current	0-24 hours	7.5 x 8.75 x 5.5	11 (13)
EC135-90	500	500	250	Voltage or Current	99 hrs 59 mins	11.9 x 8.8 x 5.6	10 (18.5)
EC570-90	500	2500	325	Voltage or Current	99 hrs 59 mins	11.9 x 8.8 x 5.6	10 (18.5)
EC1000-90	1000	1250	325	Voltage or Current	99 hrs 59 mins	11.9 x 8.8 x 5.6	10 (18.5)
EC2060	2000	600	300	Power, Volt or Current	99 hrs 59 mins	12.6 x 12.5 x 6.2	12 (14)
EC4000	4000	300	300	Power, Volt or Current	99 hrs 59 mins	12.6 x 12.5 x 6.2	12 (14)
EC6000	6000	200	200	Power, Volt or Current	99 hrs 59 mins	12.6 x 12.5 x 6.2	12 (14)
EC2060P	2000	600	300	Power, Volt or Current	99 hrs 59 mins	12.6 x 12.5 x 6.2	12 (14)
EC4000P	4000	300	300	Power, Volt or Current	99 hrs 59 mins	12.6 x 12.5 x 6.2	12 (14)
EC6000P	6000	200	200	Power, Volt or Current	99 hrs 59 mins	12.6 x 12.5 x 6.2	12 (14)

Programmable Ordering Information	
Product	Catalogue Number
105ECA-LVD	EC105
25090ECA-LVD	EC250-90
13590ECA-LVD	EC135-90
57090ECA-LVD	EC570-90
100090ECA-LVD	EC1000-90
2060ECA-LVD	EC2060
60090ECA-LVD	EC600-90
600090ECA-LVD	EC6000-90
2060PECA-LVD	EC2060P
4000PECA-LVD	EC4000P
6000PECA-LVD	EC6000P

EC140 Mini Blot Module



► Benefits

- Specifically designed to work with the EC120 Mini-Vertical Gel System. The Mini Blot Module is a small tank blotter that incorporates the best features of a semi-dry blotter (low buffer requirements (100 ml) and fast transfer rates), with none of the problems associated with semi-dry blotting, such as arcing and buffer depletion.
- Close electrode spacing creates the high intensity fields necessary for rapid transfers without generating excessive heat. This system typically operates at 25 volts to achieve transfers in as little as 45 minutes without the need for cooling.
- Accepts virtually all standard and precast mini-gels.

EC140 Mini Blot Module Specification

Maximum gel dimensions	8.5cm W x 9cm L
Dimensions (Blot Module)	6.5 W x 1.5 D x 5.5" H (16.5 x 3.8 x 14cm)
Weight (Blot Module)	Net: 1.1 lb. (0.5kg)
	Shipping: 3.0 lb. (1.36kg)

EC140 Mini Blot Module Ordering Information

Product	Catalogue Number
Mini Blot Module (Includes 3 Scotch-Brite™ Pads)	EC140

Low Voltage EC105



(Order number 105ECA-LVD)

Most reliable and best selling power supply in the history of electrophoresis!

- Constant voltage power supply, the EC105 is simplicity itself.
- One adjustment knob and one hi-lo range switch control the output (Lo 10-130 V, Hi 140-250 V in approximate 10 volt increments), with maximum current 300 mA (at 150-250 V, 500 mA) (below 150 V).
- One, two-position switch toggles the bright LED display from indicating output voltage to indicating output current.
- For maximum safety, the EC105 is equipped with an overcurrent detector.



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