

Eco-Line

Introduction

- **Glass plates with fixed glass spacers**
- **Modular tank system for PAGE**
- **Electrophoresis and blotting**
- **Integrated cooling option**
- **Casting system for up to 4 gels**

Both sizes of the tank-style Eco-Line accommodate a variety of separation techniques, including SDS-PAGE, native, preparative and gradient electrophoresis, as well as blotting applications. Eco-Maxi has the capacity to run 1 or 2 gels,

whereas Eco-Mini has the capacity to run up to 4 gels simultaneously. The Electrophoresis Module (Gel Module) is due to integrated, special side clips easy to handle. Together with the Casting Stand a leak-proof system for gel pouring is guaranteed. After polymerisation of the gels, the Electrophoresis Module together with the glass plate sandwich, is inserted into the buffer tank, forming now the upper buffer chamber. Interchangeable

modules allow to switch from electrophoresis to tank blotting. Locator slots are built into the tank side walls for easy and quick sliding of the gel electrophoresis or blotting module into locked position. For all systems optional buffer tanks with integrated water circulation are available, so overheating is avoided and highest resolution guaranteed.

Compatibility of Eco-Line Modules

	Electrophoresis Module		Blotting Module		Cooling Option	
	Eco-Mini	Eco-Maxi	Eco-Mini	Eco-Maxi	Eco-Mini	Eco-Maxi
Polyacrylamide Gel Electrophoresis						
Eco-Mini System E *	+					
Eco-Mini E	+					
Eco-Mini System EB	+		+			
Eco-Mini EB	+		+			
Eco-Mini System EBC	+		+		+	
Eco-Mini EBC	+		+		+	
Eco-Maxi System EB		+		+		
Eco-Maxi EB		+		+		
Eco-Maxi System EBC		+		+		+
Eco-Maxi EBC		+		+		+
Tank Blot Apparatus						
Tankblot Eco-Mini C	+		+		+	
Tankblot Eco-Mini	+		+			
Tankblot Eco-Maxi C		+		+		+
Tankblot Eco-Maxi		+		+		

* Indication of buffer chamber:

E = Electrophoresis

B = Blotting

C = Cooling option



Eco-Line

Overview

Eco-Line Overview

Item	Order No.	Components included												
		Buffer chamber E	Buffer chamber EB	Buffer chamber EBC with cooling option	Bigfoot Safety Lid	Electrophoresis Module	2 x glass plates with fixed spacers, 1.0 mm	2 x notched glass plates	Dummy Plate	2 x comb, 1.0 mm	Casting Stand	Blot Module	Blotting Cassettes	Foam pads
Polyacrylamide Gel Electrophoresis														
Eco-Mini System E	017-100	+			+	+	+	+	+	+				
Eco-Mini E	017-101	+			+	+	+	+	+	+				
Eco-Mini System EB	017-102		+		+	+	+	+	+	+				
Eco-Mini EB	017-103		+		+	+	+	+	+	+				
Eco-Mini System EBC with cooling option	017-104			+	+	+	+	+	+	+				
Eco-Mini EBC with cooling option	017-105			+	+	+	+	+	+	+				
Eco-Maxi System EB	017-400		+		+	+	+	+		+	+			
Eco-Maxi EB	017-401		+		+	+	+	+		+				
Eco-Maxi System EBC with cooling option	017-402			+	+	+	+	+		+	+			
Eco-Maxi EBC with cooling option	017-403			+	+	+	+	+		+				
Tank Blot Apparatus														
Tankblot Eco-Mini C with cooling option	018-100			+	+							+	+	+
Tankblot Eco-Mini	018-101		+		+							+	+	+
Tankblot Eco-Maxi C with cooling option	018-400			+	+							+	+	+
Tankblot Eco-Maxi	018-401		+		+							+	+	+

* Indication of buffer chamber:

E = Electrophoresis

EB = Blotting

EBC = Cooling option



Eco-Mini

Modular Tank System for Polyacrylamide Gel Electrophoresis and Blotting

Eco-Mini Electrophoresis System

- **Gel dimensions**
9.4 cm x 8.0 cm (W x L)
- **NEW 1 to 4 gels**
- **Applicable for handcast gels and the most common pre-cast gels**
- **Casting stand for 1 up to 4 gels**
- **Cooling option (integrated water circulation system)**

Eco-Mini is compatible with self-poured gels as well as with the most common pre-cast gels. With the electrophoresis module, glass plates from 10.5 cm to 11.0 cm width and a length up to 11.0 cm may be used. Eco-Mini is compatible with the glass plates of Minigel-Twin.

For electrophoretic separation under controlled temperature conditions the use of the EBC buffer tank with cooling option (integrated water circulation system) is recommended.

The buffer chambers EB (without cooling option) and EBC (with cooling option) are compatible with the Blot Module for Tankblot Eco-Mini. The Blot Module for Eco-Mini is available separately. For tank blotting, the use of buffer tank EBC with integrated cooling option is recommended.

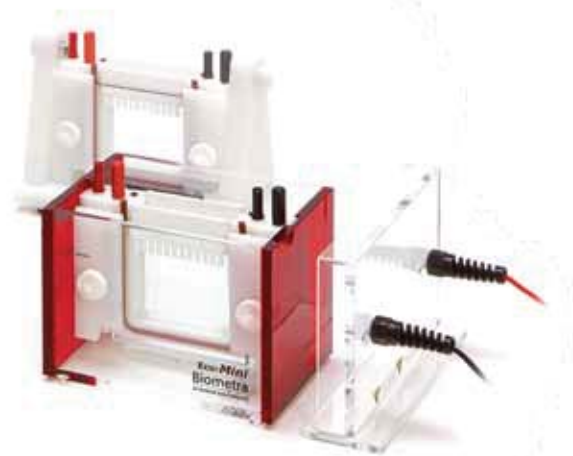
The Bigfoot Safety Lid with its specially designed foot allows a space saving and safe storing of the lid when not placed on the buffer tank.

According to customer requirements a lot of special configurations by a large number of additional component parts are possible (i. e. analytical, preparative or microtiter plate compatible combs).

Special designed **Divider-Plates** (optional available) double gel capacity up to 4 gels by converting single-gel sandwiches into two-gel club sandwiches. The two-gel sandwiches fit into the same Casting Stand and Electrophoresis Module exactly like the single gel sandwiches.



Tankblot Eco-Mini C



Eco-Mini System E

The **Blot Module** for Eco-Mini is available separately and will convert the corresponding electrophoresis apparatus into a powerful wet-blotter (does not apply to the Eco-Mini E and Eco-Mini System E).

Casting Stand for Eco-Mini

The casting stand allows an easy, fast and leak-proof assembly for up to 4 gels. Preliminary, for casting the gels one or two single-gel or two-gel sandwiches are set into the electrophoresis module and fixed with the side clips. Because the spacers are permanently fixed to one glass plate, the often difficult adjustment of spacers and glass plate is no longer necessary. In a second step, the electrophoresis module with the glass plate sandwiches is inserted into the specially designed gel casting stand and it is fixed easily and reliable by two eccentric vices. By the use of a unique high-tech material for the gasket in the casting stand and special anti-slip device of the side clips leakage proof is guaranteed.

After polymerisation of the gels, the complete assembly of electrophoresis module and glass plate sandwiches are taken from the casting stand into the buffer tank for electrophoretic separation. Specially formed slots in the side walls of the buffer tank allow a rapid and safe positioning of the module.

Electrophoresis Module

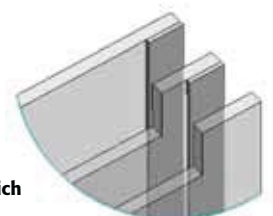
The Electrophoresis Module is designed for the use of handcast gels as well as for pre-cast gels in plastic cassettes. Common dimensions are 10 x 10 cm or 8 x 10 cm (L x W).



Electrophoresis Module



Casting Stand



Two-gel club sandwich



Eco-Mini & Tankblot Eco-Mini

Overview



Eco-Mini & Tankblot Eco-Mini: System Overview

Item	Order No.	Components included												
		1	2	3	4	5	6	7	8	9	10	11	12	13
Eco-Mini System E	017-100	+			+	+	+	+	+	+	+			
Eco-Mini E	017-101	+			+	+	+	+	+	+				
Eco-Mini System EB	017-102		+		+	+	+	+	+	+	+			
Eco-Mini EB	017-103		+		+	+	+	+	+	+				
Eco-Mini System EBC	017-104			+	+	+	+	+	+	+	+			
Eco-Mini EBC	017-105			+	+	+	+	+	+	+				
Electrophoresis Module Eco-Mini	017-175					+								
Tankblot Eco-Mini C	018-100			+	+							+	+	+
Tankblot Eco-Mini	018-101		+		+							+	+	+
Blot Module Eco-Mini	018-105											+	+	+

14 Divider-Plate

Eco-Maxi

Modular Tank System for Polyacrylamide Gel Electrophoresis and Blotting

Eco-Maxi Electrophoresis System

- **Gel dimensions**
19.4 cm x 18.5 cm (W x L)
- **Double-gel system**
- **Bigfoot Safety Lid**
- **Casting Stand for 1 or 2 gels**
- **Cooling option (integrated water circulation system)**

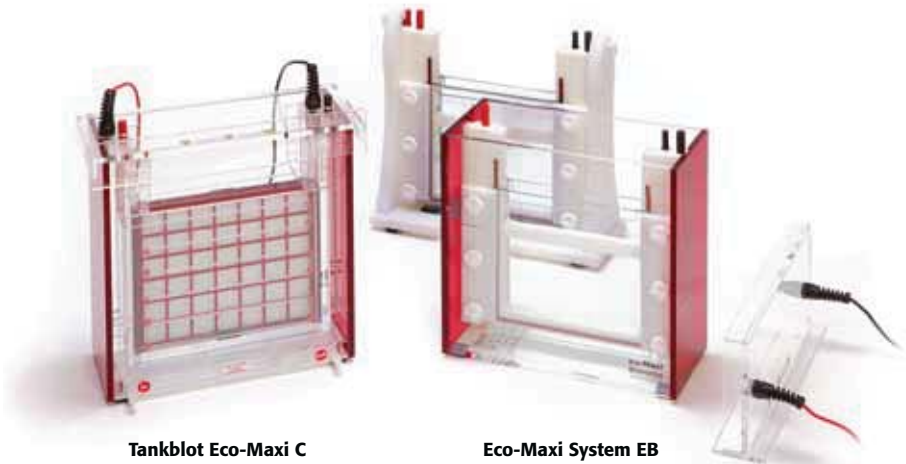
Eco-Maxi comes with glass plates with 21 cm width and 20 cm length. Eco-Maxi is also compatible for glass plates of Maxigel.

For electrophoretic separation under controlled temperature conditions the use of the EBC buffer tank with cooling option (integrated water circulation system) is recommended. The problem of smiling effects and inefficient protein resolution due to the heat development in larger gels is reliably avoided.

The buffer chambers EB (without cooling option) and EBC (with cooling option) are compatible with the Blot Module for Tankblot Eco-Maxi. The Blot Module for Eco-Maxi is available separately. For tank blotting, the use of buffer tank EBC with integrated cooling option is recommended. When using the buffer tank EB without cooling option, the transfer should be performed in a cold room.

The Bigfoot Safety Lid with its specially designed foot allows a space saving and safe storing of the lid when not placed on the buffer tank.

According to customer requirements a lot of special configurations by a large number of additional component parts are possible (i. e. analytical, preparative or microtiter plate compatible combs).



Tankblot Eco-Maxi C

Eco-Maxi System EB

The **Blot Module** for Eco-Maxi is available separately and will convert the corresponding electrophoresis apparatus into a powerful wet-blotter.

Casting Stand for Eco-Maxi

The casting stand allows an easy, fast and leak-proof assembly for 1 or 2 glass plates sandwiches.

Preliminary, for casting gels one or two glass plates sandwiches are set into the electrophoresis module and fixed with the side clips. Because the spacers are permanently fixed to one glass plate, the often difficult adjustment of large spacers and glass plate is no longer necessary.

In a second step, the electrophoresis module with the glass plates sandwiches is inserted into the specially designed gel casting stand and it is fixed easily and reliably by two eccentric vices.

By the use of a unique high-tech material for the gasket in the casting stand and special anti-slip device of the side clips leakage proof is guaranteed. After polymerisation of the gels, the complete assembly of electrophoresis module and glass plate sandwiches are taken from the casting stand into the buffer tank for electrophoretic separation. Specially formed slots in the side walls of the buffer tank allow a rapid and safe positioning of the module.



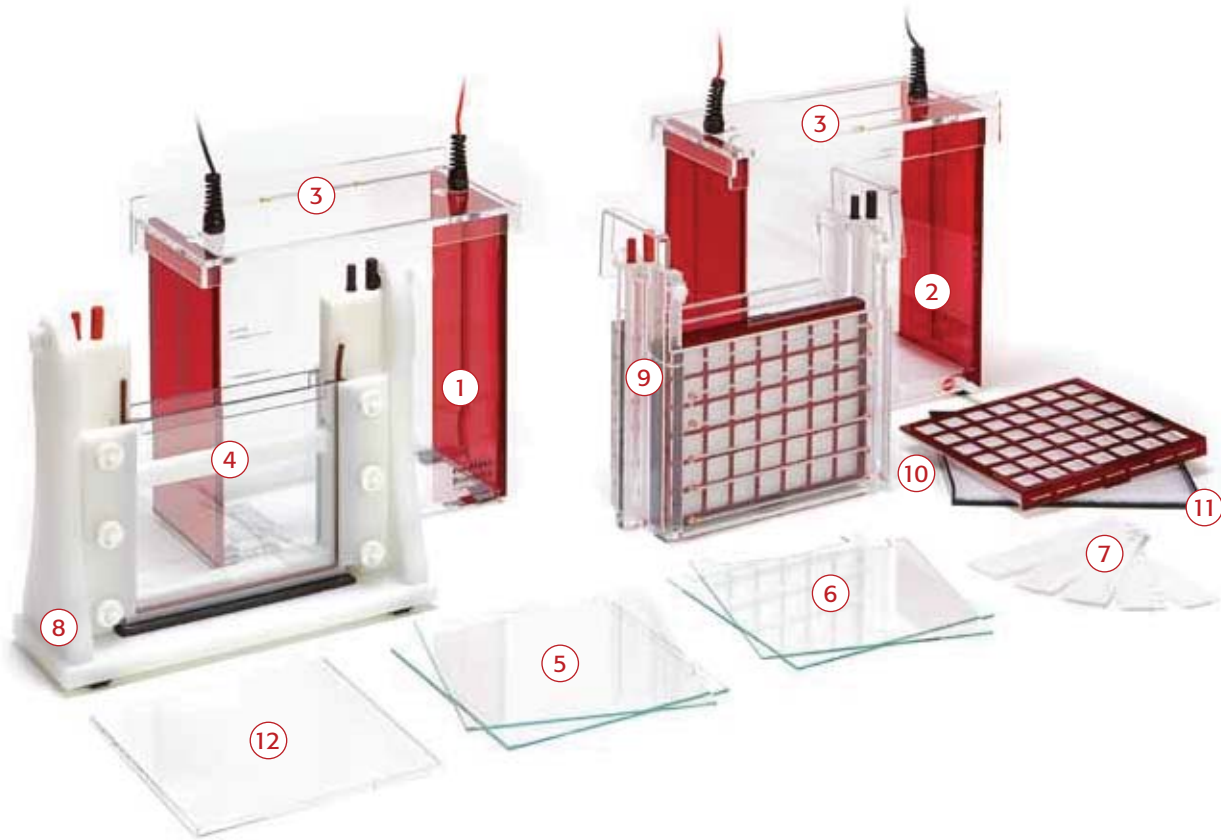
Electrophoresis Module and Casting Stand



Casting Stand

Eco-Maxi & Tankblot Eco-Maxi

Overview



Eco-Maxi & Tankblot Eco-Maxi: System Overview

Item	Order No.	Components included										
		1	2	3	4	5	6	7	8	9	10	11
Eco-Maxi System EB	017-400	+		+	+	+	+	+	+			
Eco-Maxi EB	017-401	+		+	+	+	+	+				
Eco-Maxi System EBC	017-402		+	+	+	+	+	+	+			
Eco-Maxi EBC	017-403		+	+	+	+	+	+				
Electrophoresis Module Eco-Maxi	017-475				+							
Tankblot Eco-Maxi C	018-400		+							+	+	+
Tankblot Eco-Maxi	018-401	+								+	+	+
Blot Module Eco-Maxi	018-405									+	+	+

12 Dummy Plate



Eco-Mini

Order Information

Item	Order No.
Eco-Mini System E , complete system for 2 gels with buffer chamber E (without cooling base), Bigfoot Safety Lid, Electrophoresis Module, 2 glass plates with fixed 1.0 mm spacers, 2 notched glass plates, 1 dummy plate, 2 combs (1.0 mm, 10 well) and Casting Stand. Note: Buffer chamber E is <u>not</u> compatible with Eco-Mini Blot Module.	017-100
Eco-Mini E , dto., but without Casting Stand	017-101
Eco-Mini System EB , complete system for 2 gels with buffer chamber (without cooling base), Bigfoot Safety Lid, Electrophoresis Module, 2 glass plates with fixed 1.0 mm spacers, 2 notched glass plates, 1 dummy plate, 2 combs (1.0 mm, 10 wells) and Casting Stand. Note: Buffer chamber EB is compatible with Eco-Mini Blot Module	017-102
Eco-Mini EB , dto., but without Casting Stand	017-103
Eco-Mini System EBC , complete system for 2 gels with buffer chamber (with integrated cooling base), Bigfoot Safety Lid, Electrophoresis Module, 2 glass plates with fixed 1.0 mm spacers, 2 notched glass plates, 1 dummy plate, 2 combs (1.0 mm, 10 wells) and Casting Stand. Note: Buffer chamber EB is compatible with Eco-Mini Blot Module	017-104
Eco-Mini EBC , dto., but without Casting Stand	017-105

Order Information Tankblot Eco-Mini see section: Tankblot

Accessories

Casting Stand (two-place), up to 4 gels for Eco-Mini		017-180
Glass plate with fixed spacers, 1.0 mm		017-120
Glass plate with fixed spacers, 0.75 mm		017-121
Glass plate with fixed spacers, 1.5 mm		017-122
Notched glass plate		017-125
Dummy Plate for running single gels		017-127
Divider-Plates for double gel capacity		
Divider-Plate with fixed spacers, 1.0 mm		017-183
Divider-Plate with fixed spacers, 0.75 mm		017-184
Divider-Plate with fixed spacers, 1.5 mm		017-185
Divider-Plate Sets (2 Divider-Plates and 2 combs, 10 wells)		
Divider-Plate Set, 1.0 mm		017-187
Divider-Plate Set, 0.75 mm		017-188
Divider-Plate Set, 1.5 mm		017-189
Combs, 0.75 mm thick	(max. volume/well)	
9 wells, multichannel pipet compatible	30 µl	017-130
10 wells	33 µl	017-131
12 wells	25 µl	017-132
15 wells	18 µl	017-133
preparative, with 2 marker lanes	2 x 25 µl and 385 µl	017-134



Item	(max. volume/well)	Order No.
Combs, 1.0 mm thick		
9 wells, multichannel pipet compatible	43 µl	017-140
10 wells	45 µl	017-141
12 wells	35 µl	017-142
15 wells	25 µl	017-143
preparative, with 2 marker lanes	2 x 35 µl and 515 µl	017-144
Combs, 1.5 mm thick		
9 wells, multichannel pipet compatible	65 µl	017-150
10 wells	70 µl	017-151
12 wells	55 µl	017-152
15 wells	37 µl	017-153
preparative, with 2 marker lanes	2 x 55 µl and 780 µl	017-154
Buffer chamber E (without cooling base) for Eco-Mini, without Bigfoot Safety Lid		017-169
Buffer chamber EB (without cooling base) for Eco-Mini and Tankblot Eco-Mini, without Bigfoot Safety Lid		017-170
Buffer chamber EBC (with integrated cooling base) for Eco-Mini and Tankblot Eco-Mini, without Bigfoot Safety Lid		017-171
Bigfoot Safety Lid, with cables and safety plugs for Eco-Mini and Tankblot Eco-Mini		017-172
Electrophoresis Module for Eco-Mini (1 - 4 gels)		017-175
Blot Module for Eco-Mini (incl. 4 Blotting Cassettes)		018-105
Rotary Table for twin-chambers (Minigel-Twin, Mini-V8.10, Eco-Mini family, Multigel and Multigel-Long)		010-019



Eco-Maxi

Order Information

Item	Order No.
Eco-Maxi System EB , complete system with buffer chamber EB (without cooling base), Bigfoot Safety Lid, Electrophoresis Module, 2 glass plates with fixed 1.0 mm spacers, 2 notched glass plates, 2 combs (1 mm, 12 wells) and Casting Stand Note: Buffer chamber EB is compatible with Eco-Maxi Blot Module	017-400
Eco-Maxi EB , dto., but without Casting Stand	017-401
Eco-Maxi System EBC , complete system with buffer chamber EBC (with integrated cooling base), Bigfoot Safety Lid, Electrophoresis Module, 2 glass plates with fixed 1.0 mm spacers, 2 notched glass plates, 2 combs (1.0 mm, 12 wells) and Casting Stand. Note: Buffer chamber EBC is compatible with Eco-Maxi Blot Module	017-402
Eco-Maxi EBC , dto., but without Casting Stand	017-403

Order Information Tankblot Eco-Maxi see section: Tankblot

Accessories

Casting Stand (two place) for Eco-Maxi		017-480
Glass plate with fixed spacers, 1.0 mm		017-420
Glass plate with fixed spacers, 0.75 mm		017-421
Glass plate with fixed spacers, 1.5 mm		017-423
Notched glass plate		017-425
Dummy Plate for running single gels		017-426
Combs, 0.75 mm thick		
	(max. volume/well)	
12 wells	70 µl	017-430
19 wells, multichannel pipet compatible	32 µl	017-431
25 wells	30 µl	017-432
30 wells	20 µl	017-433
preparative, with 2 marker lanes	2 x 30 µl and 970 µl	017-434
Combs, 1.0 mm thick		
	(max. volume/well)	
12 wells	95 µl	017-440
19 wells, multichannel pipet compatible	45 µl	017-441
25 wells	40 µl	017-442
30 wells	29 µl	017-443
preparative, with 2 marker lanes	2 x 45 µl and 1,310 µl	017-444
Combs, 1.5 mm thick		
	(max. volume/well)	
12 wells	165 µl	017-450
19 wells, multichannel pipet compatible	75 µl	017-451
25 wells	70 µl	017-452
30 wells	52 µl	017-453
preparative, with 2 marker lanes	2 x 75 µl and 2,340 µl	017-454
Buffer chamber EB (without cooling base) for Eco-Maxi and Tankblot Eco-Maxi, without Bigfoot Safety Lid		017-471
Buffer chamber EBC (with integrated cooling base) for Eco-Maxi and Tankblot Eco-Maxi, without Bigfoot Safety Lid		017-472
Bigfoot Safety Lid, with cables and safety plugs for Eco-Maxi and Tankblot Eco-Maxi		017-474
Electrophoresis Module for Eco-Maxi (1 or 2 gels)		017-475
Blot Module for Eco-Maxi (incl. 2 Blotting Cassettes)		018-405

