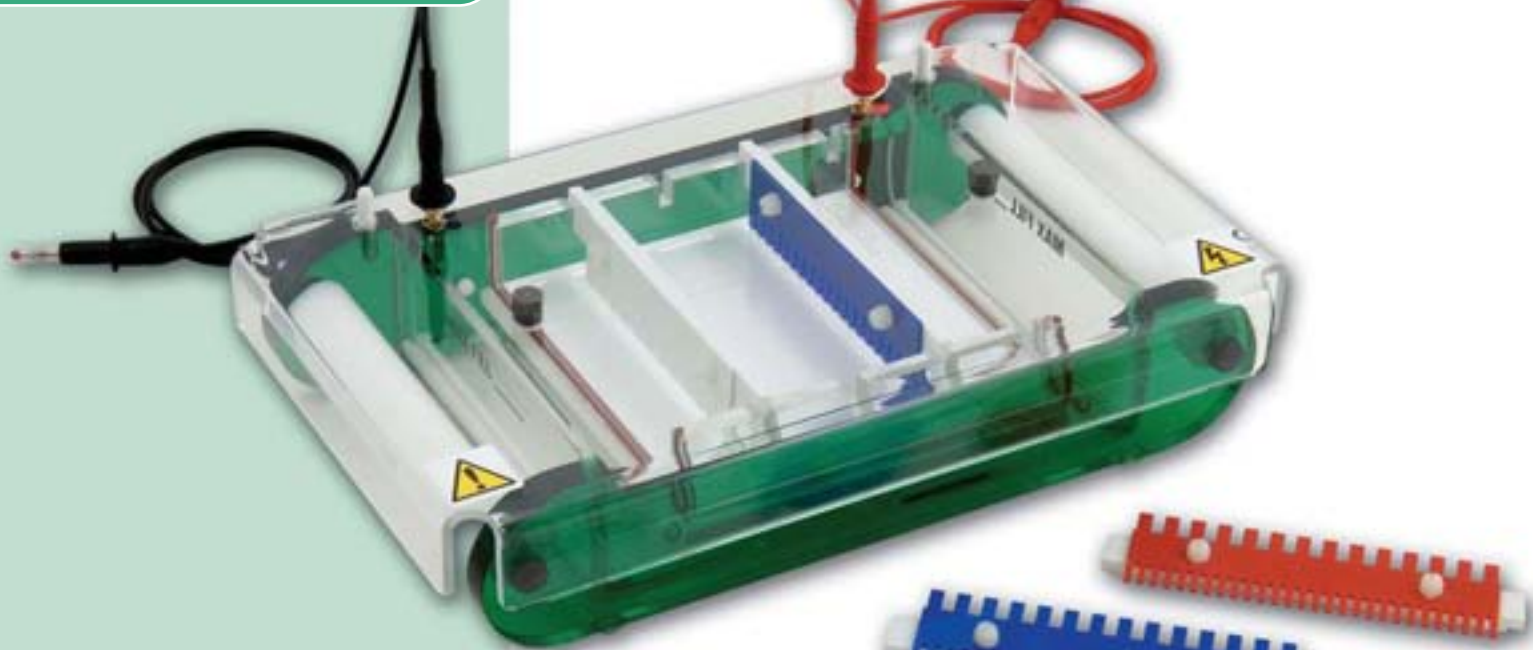


Horizontal Gel Units



BENEFITS INCLUDE

- **Four casting options** - provide total flexibility in gel casting, either directly within the tank or externally when the tank is in use
- **Combs** - colour-coded and height-adjustable - offer complete control over loading volume and well depth to a maximum 112-sample throughput
- **Four comb positions** - at 3.5cm intervals along the tray for faster separation of multiple samples
- **Buffer recirculation ports** - may be connected to a peristaltic pump for buffer recirculation during electrophoresis to maintain buffer pH and prevent ionic gradient formation
- **Coloured loading strips** - for easy well detection when loading
- **Compact tank** - reduces the buffer volume required to cover the gel, providing greater control over the voltage gradient and run-time
- **UV-transparent acrylic casting tray** - allows the user to handle the gel on the transilluminator with minimum risk of exposure to hazardous ethidium bromide
- **Side handles** - for safe and easy transportation around the laboratory

HU13 Midi Horizontal

The HU13 midi horizontal gel electrophoresis unit is ideal for analytical and preparative studies of nucleic acids.

HU13 IN-TANK CASTING OPTIONS

HU13-UT - silicone gaskets, lining the HU10 casting tray, form a leak proof seal against the inner walls of the running chamber when the casting tray is turned at 90° to the direction of electrophoresis

HU13-SS - 13cm long Scie-Plas Super-Seals offer total versatility in casting, allowing the gel length to be tailored to each user's personal requirements



ORDERING INFORMATION

Complete System

Midi horizontal gel unit with removable casting tray and 2 x 1mm thick, 16-sample combs, coloured loading strips and buffer recirculation ports

Part No.

HU13

Replacement Parts & Accessories

1 x gel casting tray 12.8 x 13cm	HU13-UT
2 x buffer recirculation ports	HU-BRP
2 x silicone casting gates	HU13-SCG
1 x silicone gasket, 1 metre	HU-SG
2 x Scie-Plas Super-Seals	HU13-SS
12 x coloured loading strips	HU13-CS
1 x external casting unit for 3 gel casting trays	HU13-CU
1 x gel scoop	HU13-GS
2 x 0.2mm thick, platinum electrode wire	PT-0.2
2 x 1metre power leads with shrouded 4mm power output connectors	CABLE-4

HU13 Combs

Part No.	Thickness (mm)	Sample Throughput	Tooth Width (mm)	Max. Spacing (mm)	Sample Volume in a 5mm Deep Well (µl)
HU13-C1-10	1	10	9.5	2.5	40
HU13-C1-12MC	1	12	8	2	35
HU13-C1-16	1	16	5.5	2	25
HU13-C1-20	1	20	4	2	17
HU13-C1-24	1	24	3	2	13
*HU13-C1-28MC	1	28	3	1.5	13
+HU13-C1-14/28MC	1	14/28	5/2.5	4/2	22/11
HU13-C1.5-10	1.5	10	9.5	2.5	60
HU13-C1.5-12MC	1.5	12	8	2	50
HU13-C1.5-16	1.5	16	5.5	2	35
HU13-C1.5-20	1.5	20	4	2	25
HU13-C1.5-24	1.5	24	3	2	20
*HU13-C1.5-28MC	1.5	28	3	1.5	20
+HU13-C1.5-14/28MC	1.5	14/28	5/2.5	4/2	32.5/16.5
HU13-C2-10	2	10	9.5	2.5	85
HU13-C2-12MC	2	12	8	2	70
HU13-C2-16	2	16	5.5	2	50
HU13-C2-20	2	20	4	2	35
HU13-C2-24	2	24	3	2	25
*HU13-C2-28MC	2	28	3	1.5	25
+HU13-C2-14/28MC	2	14/28	5/2.5	4/2	43/21

*Multi-channel pipette compatible

+Reversible and multi-channel pipette compatible

HU13 EXTERNAL CASTING OPTIONS

HU13-SCG - silicone casting gates slot into the grooves at each end of the casting tray to form a leak-free seal



HU13-CU - silicone gaskets, seated in the groove of each casting tray form a leak-free seal against the walls of the casting unit, allowing 3 gels to be cast simultaneously



TECHNICAL SPECIFICATION

Unit Dimensions (W x L x H)	20 x 32 x 7cm
Gel Dimensions (W x L)	12.8 x 15cm
Buffer Volume	900ml
Buffer Recirculation Ports	2
Maximum Sample Capacity	112
Combs	2
Comb Thickness	1, 1.5 or 2mm
Comb Throughput	10 to 28 samples
Comb Slots	4
Migration Distance Between Comb Slots	3.5cm
Recommended Running Voltage	100 to 125V
Power Output Connectors (diameter)	Shrouded, 4mm
Recommended Power Supplies	Scie-Plas MPSU-200/100 Consort EV243

DO YOU NEED...?

ELECTROPHORESIS BUFFERS	SEE PAGE 136
COLOURED LOADING STRIPS	SEE PAGE 40
A POWER SUPPLY	SEE PAGES 100-103
AN EXTERNAL CASTING UNIT	SEE PAGE 38
A GEL SCOOP	SEE PAGE 40



TECHNICAL TIP | DNA Mobility:

DNA fragments as small as 1kb or less can be separated using agarose gel electrophoresis. For fragments smaller than 0.1kb, polyacrylamide gels are more suitable.