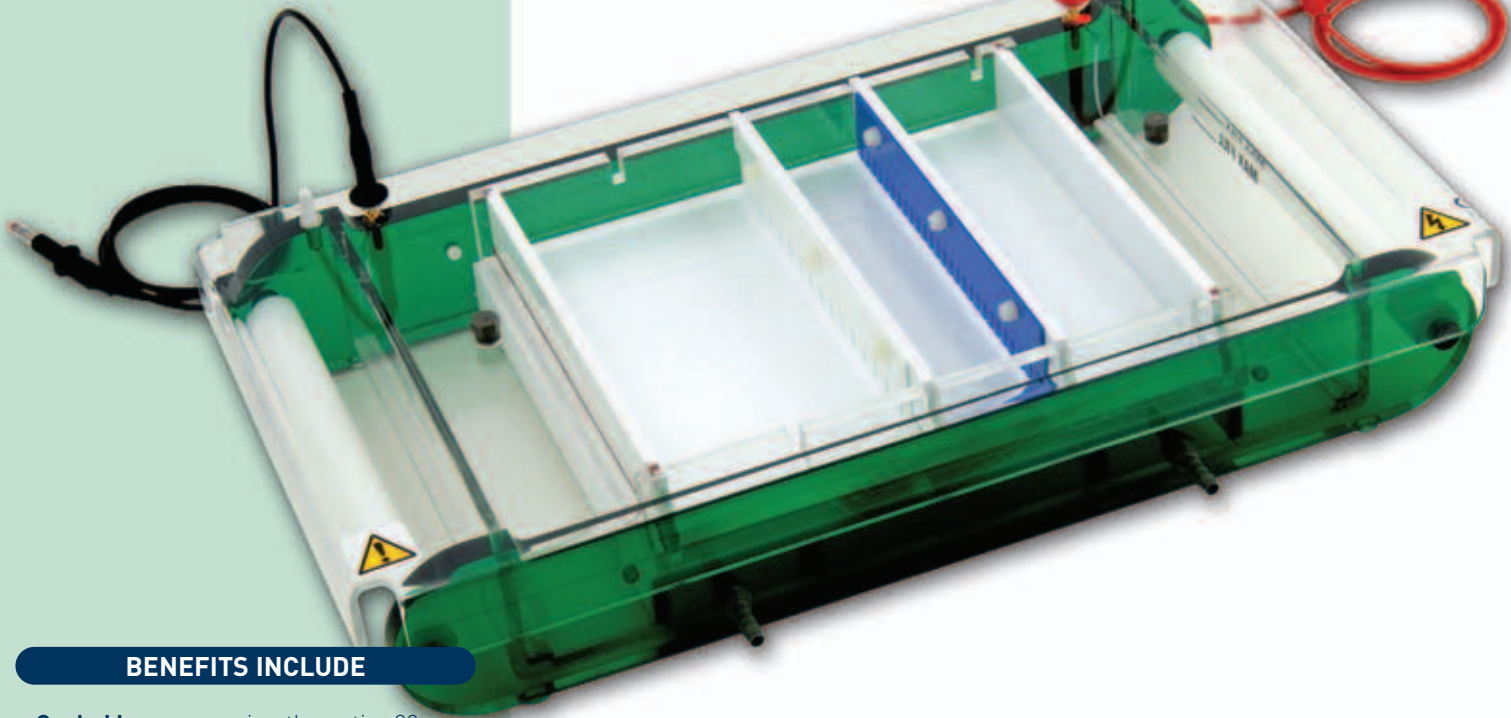


## Horizontal Gel Units



### BENEFITS INCLUDE

- **Cooled base** - covering the entire 20 x 20cm gel tray - allows separations to be performed faster and at higher voltage, without loss of resolution
- **Cooling ports** - connect the cooled base either to the laboratory water supply or the optional external chiller (Page 82) for enhanced cooling
- **Four comb slots** - at 5cm intervals along the tray for faster separation of a maximum 168 samples
- **Multichannel pipette compatible combs** - with a maximum 42-sample throughput - reduce gel-loading time
- **Combs** - colour-coded and height-adjustable - offer complete control over loading volume and well depth
- **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
- **UV-transparent acrylic casting tray** - allows the user to image the gel without risk of damage due to handling
- **Side handles** - for safe and easy transportation around the laboratory



## CHU20 Maxi-Cooled Horizontal

The CHU20 maxi-cooled horizontal gel electrophoresis unit allows analytical and preparative studies of nucleic acids to be performed quickly at high voltage without compromising resolution.

### CHU20 CASTING OPTIONS

**HU20-CG** - casting gates with integral silicone seals effectively seal the tray without the need for tape, provided the silicone gasket faces outwards as shown



**HU20-SS** - 20cm long Scie-Plas Super-Seals offer total versatility in casting, allowing the gel length to be tailored to each user's personal requirements



## Replacement parts and accessories



### ORDERING INFORMATION

#### Complete System

Maxi-cooled horizontal gel unit with removable casting tray, including casting gates with integral silicone seals, 2 x 1mm thick, 16-sample combs, coloured loading strips and buffer recirculation ports

#### Part No.

CHU20

#### Replacement Parts & Accessories

1 x gel casting tray, 20 x 20cm, including casting gates with integral silicone seals  
 2 x buffer recirculation ports  
 2 x casting gates with integral silicone seals  
 1 x silicone gasket, 1 metre  
 2 x Scie-Plas Super-Seals  
 12 x coloured loading strips  
 1 x gel scoop  
 2 x 0.2mm thick, platinum electrode wire  
 2 x 1 metre power leads with shrouded  
 4mm power output connectors

HU20-UT  
 HU-BRP  
 HU20-CG  
 HU-SG  
 HU20-SS  
 HU20-CS  
 HU20-GS  
 PT-0.2

CABLE-4

#### CHU20 Combs

Part No.	Thickness (mm)	Sample Throughput	Tooth Width (mm)	Max. Spacing (mm)	Sample Volume in a 5mm Deep Well (µl)
HU20-C1-16	1	16	8.5	3	35
*HU20-C1-20MC	1	20	7	2	30
HU20-C1-28	1	28	5	2	20
*HU20-C1-40MC	1	40	3	2	13
HU20-C1.5-16	1.5	16	8.5	3	55
*HU20-C1.5-20MC	1.5	20	7	2	45
HU20-C1.5-28	1.5	28	5	2	30
*HU20-C1.5-40MC	1.5	40	3	2	19
HU20-C2-16	2	16	8.5	3	75
*HU20-C2-20MC	2	20	7	2	60
HU20-C2-28	2	28	5	2	40
*HU20-C2-40MC	2	40	3	2	25

\*Multi-channel pipette compatible



### TECHNICAL TIP I

**Temperature:** Electrophoresis at high voltages produces heat. Additionally, high-conductivity buffers such as TAE generate more heat than low-conductivity buffers. Care should be taken in agarose gel electrophoresis with voltages greater than 175 Volts, as heat build up can generate gel artefacts such as S-shaped migration fronts, and in extended electrophoresis runs can even melt the agarose gel. With high voltage electrophoresis, the use of low-melting point agarose gels should be avoided.

### TECHNICAL SPECIFICATION

Unit Dimensions (W x L x H)	27 x 47.5 x 8cm
Gel Size (W x L)	20 x 20cm
Buffer Volume	2200ml
Buffer Recirculation Ports	2
Maximum Sample Capacity	168
Combs	2
Comb Thickness	1, 1.5 or 2mm
Comb Throughput	16 to 42 samples
Comb Slots	6
Cooling Ports	2
Migration Distance Between Comb Slots	5cm
Recommended Running Voltage	150 to 225V
Power Output Connectors (diameter)	Shrouded, 4mm
Recommended Power Supply	Consort EV243