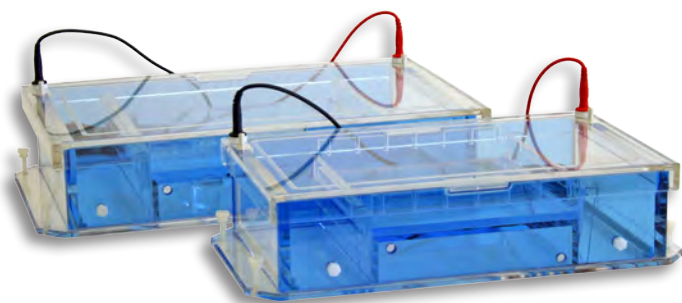


## 4 sizes with 3 options for gel casting



### APPLICATIONS

- Separation and identification of DNA fragments, RNA fragments, PCR products and synthetic oligonucleotides

### FEATURES

#### Removable Electrode Cassette Design



Platinum electrode cassettes provide rapid sample velocity and clear focused bands without smearing. These cassettes are easily removed for cleaning or replacement.

- High quality, heavy duty construction, 3 year warranty with vast array of accessory options.
- Four sizes of Submarine/Horizontal Systems in standard kits or with the Productivity Package Option
- **Gel Tray Specifications:**
  - 1) All gel trays are winged for easy handling - no more sticking fingers into slippery buffer to extract gel tray.
  - 2) Made from sturdy 6.4mm thick UV transparent acrylic.
  - 3) Grooves in gel tray corners create agarose anchors to prevent gel flotation during electrophoresis.
  - 4) Gel tray configuration allows single run or multiple simultaneous short runs. (See Gel Tray Profiles).
- 3 options for gel casting; tapered baffles, External Gel Casters and Continuously Adjustable Caster.
- Adjustable height polycarbonate or PTFE-coated aluminum combs are available in many configurations, with or without markers. PTFE-coated combs allow faster well formation and no wells are lost when using low percentage or low melt agarose.
- Buffer recirculation ports allow maintenance of uniform pH and ionic strength and reduce frequency of buffer changes necessary during long runs.
- Tight-fitting safety cover reduces condensation during electrophoresis.
- Coolant can be recirculated beneath gel bed to provide constant temperature runs.
- Combs are printed with catalog # and thickness for easy identification.

### Horizontal Productivity Package Option

GCHSU-014, GCHSU-020, GCHSU-030, GCHSU-040

Complete System:

- Electrophoresis unit with cooling chamber
- Platinum electrode cassettes
- External Gel Caster, one place
- 2 UV transparent winged gel trays
- Tapered baffles for gel formation
- 2 adjustable height combs
- Buffer recirculation ports
- Leveling base with bubble level
- Interlock safety cover with thread-on power leads

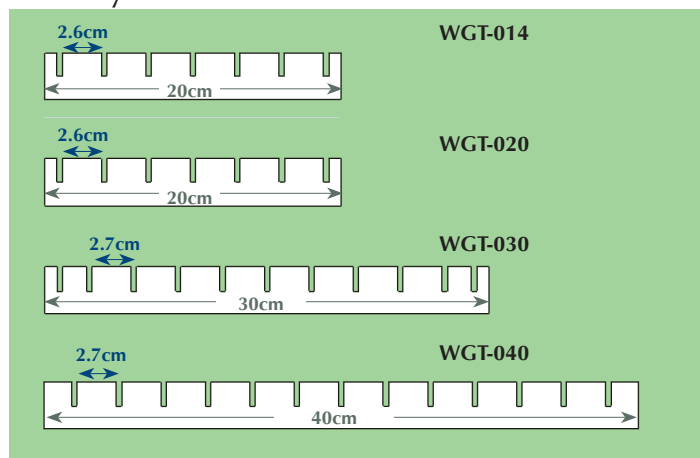
### Standard Submarine/Horizontal Systems

HSU-014, HSU-020, HSU-030, HSU-040

Complete System:

- Electrophoresis unit with cooling chamber
- Platinum electrode cassettes
- UV transparent winged gel tray
- Tapered baffles for gel formation
- 1 adjustable height comb
- Buffer recirculation ports
- Leveling base with bubble level
- Interlock safety cover with thread-on power leads

### Gel Tray Profiles



### SPECIFICATIONS

Horizontal System Cat. #	Overall Dimensions W x L x H (cm)	Gel Bed Size W x L (cm)	Buffer Volume (ml)	Compatible Gel tray	Gel Tray I.D. W x L (cm)	Agarose Solution Required* (ml)	# of Slots in Gel Tray	Pathlength/Slot (cm)	Maximum # of Samples
<b>GCHSU-014, HSU-014</b>	15 x 38 x 10	14 x 20	1600	WGT-014	12.7 x 20	127	6	2.6	162
<b>GCHSU-020, HSU-020</b>	21 x 43 x 10	20 x 20	1850	WGT-020	18.7 x 20	187	6	2.6	240
<b>GCHSU-030, HSU-030</b>	21 x 53 x 10	20 x 30	1950	WGT-030	18.7 x 30	280	9	2.7	360
<b>GCHSU-040, HSU-040</b>	21 x 63 x 10	20 x 40	2050	WGT-040	18.7 x 40	374	12	2.7	480

\* Gel tray agarose required was calculated using a gel thickness of 0.5cm

<b>COMB OPTIONS, 14cm wide</b>				
adjustable height, printed with catalog # and thickness				
<b>material:</b> Polycarbonate or PTFE-coated aluminum*				
<b>tooth depth:</b> 12.7mm, <b>overall length:</b> 12.06cm				
Cat. #	# of Teeth	Thickness of Teeth (mm)	Width of Teeth (mm)	Recommended Max. Sample Vol./Well (µl)*
SGC14-1010	10	1.0	9.2	88
SGC14-1012	12	1.0	7.8	74
SGC14-1013*	13	1.0	6.6	63
SGC14-1016	16	1.0	5.3	51
SGC14-1020	20	1.0	4.5	43
SGC14-1026	26	1.0	3.1	30
SGC14-1027*	27	1.0	2.93	28
SGC14-1510	10	1.5	9.2	131
SGC14-1512	12	1.5	7.8	111
SGC14-1513*	13	1.5	6.6	94
SGC14-1516	16	1.5	5.3	76
SGC14-1520	20	1.5	4.5	64
SGC14-1526	26	1.5	3.1	44
SGC14-1527*	27	1.5	2.93	42
SGC14-2010	10	2.0	9.2	175
SGC14-2012	12	2.0	7.8	149
SGC14-2013*	13	2.0	6.6	126
SGC14-2016	16	2.0	5.3	101
SGC14-2020	20	2.0	4.5	86
SGC14-2026	26	2.0	3.1	59
SGC14-2027*	27	2.0	2.93	56
SGC14-3010	10	3.0	9.2	263
SGC14-3012	12	3.0	7.8	223
SGC14-3013*	13	3.0	6.6	189
SGC14-3016	16	3.0	5.3	151
SGC14-3020	20	3.0	4.5	128
SGC14-3026	26	3.0	3.1	89
SGC14-3027*	27	3.0	2.93	83

<b>COMB OPTIONS, 20cm wide</b>				
adjustable height, printed with catalog # and thickness				
<b>material:</b> Polycarbonate or PTFE-coated aluminum*				
<b>tooth depth:</b> 12.7mm, <b>overall length:</b> 17.8cm				
Cat. #	# of Teeth	Thickness of Teeth (mm)	Width of Teeth (mm)	Recommended Max. Sample Vol./Well (µl)*
SGC20-1012	12	1.0	12.8	123
SGC20-1020*	20	1.0	6.7	65
SGC20-1030	30	1.0	4.5	43
SGC20-1040*	40	1.0	3	28
SGC20-1512	12	1.5	12.8	183
SGC20-1520*	20	1.5	6.7	97
SGC20-1530	30	1.5	4.5	64
SGC20-1540*	40	1.5	3	42
SGC20-2012	12	2.0	12.8	244
SGC20-2020*	20	2.0	6.7	129
SGC20-2030	30	2.0	4.5	86
SGC20-2040*	40	2.0	3	56
SGC20-3012	12	3.0	12.8	365
SGC20-3020*	20	3.0	6.7	194
SGC20-3030	30	3.0	4.5	128
SGC20-3040*	40	3.0	3	85

## ORDERING INFORMATION

CAT. #	DESCRIPTION
<b>HORIZONTAL/SUBMARINE SYSTEMS</b>	
GCHSU-014	<b>Horizontal/Submarine Productivity Package, CE,</b> gel bed dimensions 14cm(w) x 20cm(l)
GCHSU-020	<b>Horizontal/Submarine Productivity Package, CE,</b> gel bed dimensions 20cm(w) x 20cm(l)
GCHSU-030	<b>Horizontal/Submarine Productivity Package, CE,</b> gel bed dimensions 20cm(w) x 30cm(l)
GCHSU-040	<b>Horizontal/Submarine Productivity Package, CE,</b> gel bed dimensions 20cm(w) x 40cm(l)
HSU-014	<b>Standard Horizontal/Submarine System, CE,</b> gel bed dimensions 14cm(w) x 20cm(l)
HSU-020	<b>Standard Horizontal/Submarine System, CE,</b> gel bed dimensions 20cm(w) x 20cm(l)
HSU-030	<b>Standard Horizontal/Submarine System, CE,</b> gel bed dimensions 20cm(w) x 30cm(l)
HSU-040	<b>Standard Horizontal/Submarine System, CE,</b> gel bed dimensions 20cm(w) x 40cm(l)
<b>Related Products</b>	
AGCT-16520	Additional Continuously Adjustable Gel Caster, fits gel trays ≤ 14cm(w) and from 5-20cm(l)
AGCT-21826	Additional Continuously Adjustable Gel Caster, fits gel trays ≤ 21cm(w) and from 8-26cm(l)
AGCT-27940	Additional Continuously Adjustable Gel Caster, fits gel trays ≤ 27cm(w) and from 9-40cm(l)
GCT-14-201	External Gel Caster, fits 1 WGT-014 Gel Tray
GCT-14-202	External Gel Caster, fits 2 WGT-014 Gel Trays
GCT-20-102	External Gel Caster, fits 1 WGT-020 Gel Tray
GCT-20-202	External Gel Caster, fits 2 WGT-020 Gel Trays
GCT-20-301	External Gel Caster, fits 1 WGT-030 Gel Tray
GCT-20-302	External Gel Caster, fits 2 WGT-030 Gel Trays
GCT-20-401	External Gel Caster, fits 1 WGT-040 Gel Tray
GCT-20-402	External Gel Caster, fits 2 WGT-040 Gel Trays
WGT-014	Replacement Gel Tray, UVT, 14cm(w) x 20cm(l)
WGT-020	Replacement Gel Tray, UVT, 20cm(w) x 20cm(l)
WGT-030	Replacement Gel Tray, UVT, 20cm(w) x 30cm(l)
WGT-040	Replacement Gel Tray, UVT, 20cm(w) x 40cm(l)
EPS-300 X	<b>Power Supply, CE,</b> 10-300V, 4-500mA
EPS-600	<b>Power Supply, CE,</b> 5-600V, 3-500mA (Recommended for HSU-040 and GCHSU-040)

\*Multi-channel pipettor compatible. Refer to microtitre loading diagram on page 51 for the SGC14 comb series.

\*Maximum loading volume for is calculated by taking 75% of the total tooth volume.

\*To specify PTFE-coated aluminum add "TF" to end of cat. #.

## Gel Casting Options

### 1) In Situ Tapered Baffle System:

Simply slide baffles into grooves next to gel bed (1). Baffles rest friction tight against the gel tray or gel bed if no tray is used. After the gel has been poured and has solidified simply slide the baffles out of their slots.



### 2) External Gel Casters:

Pre-cast your agarose gels for future use in an easy to use and easy to store fashion. These support trays have leveling bases and are lined with soft, closed cell neoprene to provide firm yet supple support for casting gels without leakage. 1 or 2-place casters are available for every size. Order from GCT series of Horizontal Gel Casters.



### 3) Continuously Adjustable Gel Casters:

These continuously adjustable horizontal gel casters fit a wide range of gel trays and are easy to use. The gel tray is sandwiched between 2 rubber gaskets using an adjustable gate that can be locked into place using finger cams.

