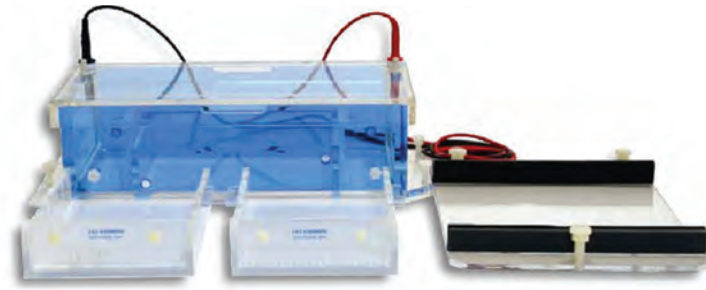


Cast a second gel while the first is running for increased productivity and efficiency



Econo-Sub Productivity Packages
 GCHSE-014T02, GCHSE-020-02, GCHSE-030-02, GCHSE-040-02

Complete System:

- Electrophoresis unit with cooling chamber
- Platinum electrodes
- External Gel Caster, one-place
- 2 UV transparent gel trays
- 2 adjustable height combs
- Buffer recirculation ports
- Leveling base with bubble level
- Safety cover with attached leads

APPLICATIONS

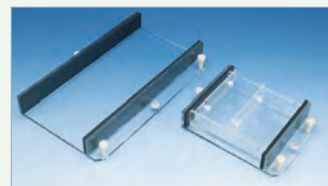
- Separation and identification of DNA fragments, RNA fragments, PCR products and synthetic oligonucleotides

FEATURES

- Four sizes of Econo-Sub Productivity Packages are offered with the following gel bed sizes:
 - 14cm(w) x 20cm(l)
 - 20cm(w) x 20cm(l)
 - 20cm(w) x 30cm(l)
 - 20cm(w) x 40cm(l)
- Removable Platinum electrode cassettes. Cassettes are easily removed for cleaning or replacement.
- **Gel Tray Specifications:**
 - 1) All gel trays are winged for easy handling
 - 2) Gel trays are 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.
- Cast a second gel while the first is running. The addition of the external gel caster and additional gel tray allows the researcher to use time more efficiently.
- 2 options for gels casting as shown at right.
- 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.

Gel Casting Options

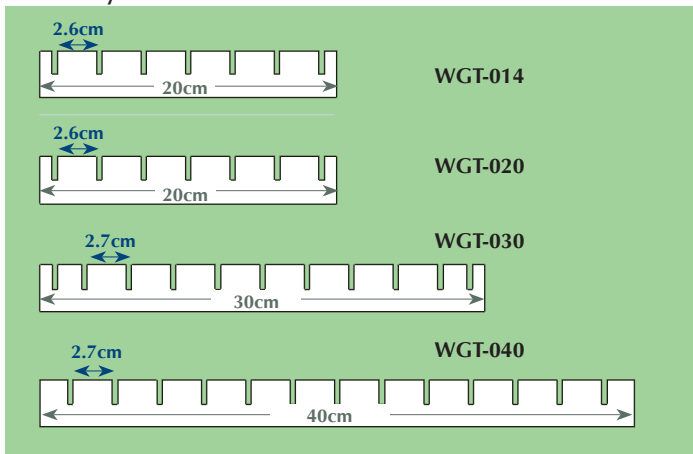
1) External Gel Caster: Pre-cast your agarose gels for future use in an easy to use and easy to store fashion. These support trays have leveling bases and are lined with soft, closed cell neoprene to provide firm yet supple support for casting gels without leakage. 1 or 2-place casters are available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



2) Continuously Adjustable Gel Caster 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.



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
GCHSE-014-02	15 x 38 x 10	14 x 20	1600	WGT-014	12.7 x 20	127	6	2.6	162
GCHSE-020-02	21 x 43 x 10	20 x 20	1850	WGT-020	18.7 x 20	187	6	2.6	240
GCHSE-030-02	21 x 53 x 10	20 x 30	1950	WGT-030	18.7 x 30	280	9	2.7	360
GCHSE-040-02	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

COMB OPTIONS, 14cm wide[§] (for 3mm thickness see comb chart on page 49)
 adjustable height, printed with catalog # and thickness
material: Polycarbonate or PTFE-coated aluminum*
tooth depth: 12.7mm, **overall length:** 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
SGC14-1016	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
SGC14-1516	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
SGC14-2016	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

[§] for 3mm thickness see comb chart on page 49

COMB OPTIONS, 20cm wide
 adjustable height, printed with catalog # and thickness
material: Polycarbonate or PTFE-coated aluminum*
tooth depth: 12.7mm, **overall length:** 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

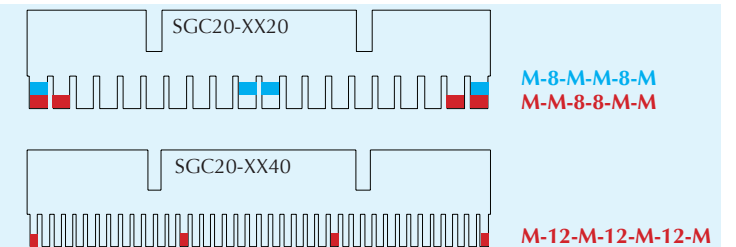
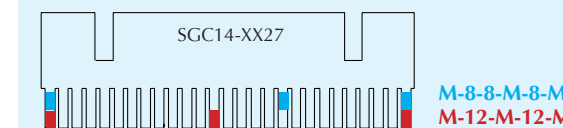
*Multi-channel pipettor compatible

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

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

Microtitre Comb Profiles

Possible loading strategies for microtitre compatible combs are listed below:
 M= marker lane is indicated with either a solid blue or red rectangle
 12 or 8 = number of wells loading capability for microtitre compatible spacing



ORDERING INFORMATION

CAT. #	DESCRIPTION
ECONO-SUB PRODUCTIVITY PACKAGES	
GCHSE-014-02	Econo-Sub Productivity Package, CE, gel bed dimensions 14cm(w) x 20cm(l)
GCHSE-020-02	Econo-Sub Productivity Package, CE, gel bed dimensions 20cm(w) x 20cm(l)
GCHSE-030-02	Econo-Sub Productivity Package, CE, gel bed dimensions 20cm(w) x 30cm(l)
GCHSE-040-02	Econo-Sub Productivity Package, CE, gel bed dimensions 20cm(w) x 40cm(l)
Related Products	
AGCT-16520	Continuously Adjustable Gel Caster, fits gel trays ≤ 14cm(w) and from 5-20cm(l)
AGCT-21826	Continuously Adjustable Gel Caster, fits gel trays ≤ 21cm(w) and from 8-26cm(l)
AGCT-27940	Continuously Adjustable Gel Caster, fits gel trays ≤ 27cm(w) and from 9-40cm(l)
GCT-14-201	External Gel Caster, fits one 14cm(w) x 20cm(l) tray
GCT-14-202	External Gel Caster, fits two 14cm(w) x 20cm(l) trays
GCT-20-102	External Gel Caster, fits one 20cm(w) x 20cm(l) tray
GCT-20-202	External Gel Caster, fits two 20cm(w) x 20cm(l) trays
GCT-20-301	External Gel Caster, fits one 20cm(w) x 30cm(l) tray
GCT-20-302	External Gel Caster, fits two 20cm(w) x 30cm(l) trays
GCT-20-401	External Gel Caster, fits one 20cm(w) x 40cm(l) tray
GCT-20-402	External Gel Caster, fits two 20cm(w) x 40cm(l) 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	Power Supply, CE, 10-300V, 4-500mA
EPS-600	High Current Power Supply, CE, 5-600V, 3-500mA (recommended for GCSGE-040-02)