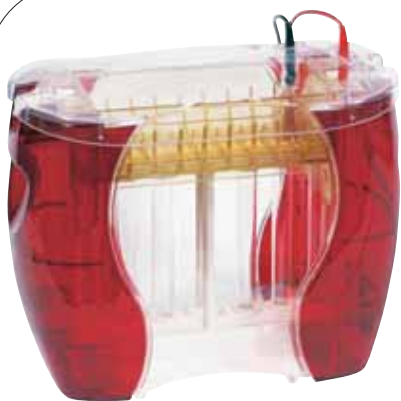


Hoefler pioneered the vertical format for electrophoresis separations and continues to offer innovative designs and a variety of choices.

Protein Electrophoresis

Dual Cooled & Air-Cooled Vertical Electrophoresis



**SE 600X CHROMA™
DUAL COOLED
VERTICAL
ELECTROPHORESIS UNIT**
SEE PAGE 3



**SE 600
DUAL COOLED
VERTICAL
ELECTROPHORESIS UNIT**
SEE PAGE 4

Hoefler SE 600 SERIES DUAL COOLED TANK-STYLE VERTICAL UNITS run two or four gels simultaneously at the same temperature and a maximum of 112 samples when using divider plates. A heat exchanger suspended in the buffer tank cools buffer evenly, producing excellent separations with straight, sharp, well-defined bands.



**SE 660
DUAL COOLED
VERTICAL
ELECTROPHORESIS UNIT**
SEE PAGE 4



**SE 400 STURDIER
AIR COOLED
VERTICAL
ELECTROPHORESIS UNIT**
SEE PAGE 6

SE 400 SERIES STURDIER VERTICAL UNITS are air-cooled, affordably priced and run one gel (or two, by using a divider plate). SE 400 Series units are the ideal choice for labs requiring many units or applications where temperature control is not crucial.



**CASTERS FOR
VERTICAL
ELECTROPHORESIS**
SEE PAGE 7

Separate, simple-to-use GEL CASTERS allow you to cast multiple identical gels at one time.

A wide array of well-forming COMBS and SPACERS allows you to tailor gel configurations to your needs.

**COMBS
& SPACERS**
SEE PAGE 10

The Hoefer SE 600X, SE 600 and SE 660 are the high performance vertical units of choice in thousands of laboratories worldwide.

SE 600X CHROMA

Deluxe Dual Cooled Vertical Unit

The striking SE 600X CHROMA is the latest addition to the Hoefer SE 600 Vertical Series.

- ▶ Rounded contours allow for ease in handling, lifting, introducing sample, and disassembling.
- ▶ Produces straight lanes and sharp, well-defined bands.
- ▶ Runs as many as four gels (maximum 112 samples) at one time under identical conditions.
- ▶ Accepts gels 8-cm or 16-cm long.
- ▶ Accommodates denaturing and native polyacrylamide gels, and the second dimension of 2-D electrophoresis.
- ▶ A wide array of accessories enables you to tailor gel configurations to your needs.
- ▶ Runs gels at temperatures from 1 to 45 °C.

ORDERING INFORMATION

Max. Glass Plate Size
18 x 16 cm

1-4
GELS



SE 600X CHROMA
Item# SE600X-15-1.5

Includes:

- Upper Buffer Chamber
- Chroma Safety Lid w/ High Voltage Leads
- Chroma Lower Buffer Chamber
- Heat Exchanger
- Glass Plates 18 x 16 cm - 3 matched pairs
- Clamp Assemblies, 16 cm - 4 pcs
- Cams - 6 pcs
- Slotted Gaskets for UBC - 2 pcs
- Dual Gel Casting Stand with Leveling Base
- Spirit Level
- Laminated Gaskets for Caster - 2 pcs
- Buffer Dam
- Spacer-Mate - Alignment Template
- Wonder Wedge - Plate Separation Tool
- Gel Seal
- Combs, 15-Well - 2 pcs
- Spacers, 1.5-mm thick (2-cm wide) - 4 pcs

TECHNICAL SPECIFICATIONS

Glass Plate Size
18 x 16 cm or 18 x 8 cm

Spacers
0.75 mm, 1.0 mm, 1.5 mm

Maximum Power Settings
1000 V, 500 mA, 50 W

Operating Conditions
Maximum Temperature: 45 °C
Environmental Operating Conditions:
Indoor Use: 4 - 40 °C
Humidity: up to 80%
Altitude: up to 2000 m

Unit Dimensions (W x H x D):
32 x 29 x 14 cm (12.5" x 11.5" x 5.5")

Safety Certifications
EN61010-1
UL3101-1
CSA C22.2 1010.1
CE

SE 600 & 660

Standard Dual Cooled Vertical Units

SE 600 accepts gels 8-cm and 16-cm long.
SE 660, taller, but essentially the same design as the SE 600, accepts gels 8-, 16- and 24-cm long.

- ▶ Produce straight lanes and sharp, well-defined bands.
- ▶ Run up to four gels (maximum 112 samples) at one time under identical conditions.
- ▶ Run gels at uniform temperature from 1 to 45 °C.
- ▶ SE 660 accommodates 24 cm gels for increased resolution.
- ▶ Accommodate denaturing and native polyacrylamide gels, and 2-D electrophoresis.
- ▶ A wide array of accessories allows you to tailor gel configurations to your needs.



TECHNICAL SPECIFICATIONS

Glass Plate Size

SE 600: 18 x 16 cm or 18 x 8 cm
SE 660: 18 x 24 cm, 18 x 16 cm or 18 x 8 cm

Spacers: 0.75 mm, 1.0 mm, 1.5 mm

Maximum Power Settings: 1000 V, 500 mA, 50 W

Operating Conditions:

Maximum Temperature: 45 °C
Environmental Operating Conditions:
Indoor Use: 4 - 40 °C
Humidity: up to 80%
Altitude: up to 2000 m

Unit Dimensions (W x H x D):

SE 600: 32 x 29 x 14 cm (12.5" x 11.5" x 5.5")
SE 660: 32 x 37 x 14 cm (12.5" x 14.5" x 5.5")

Safety Certifications

EN61010-1, UL3101-1, CSA C22.2 1010.1 and CE

SE600 ORDERING INFORMATION

Max. Glass Plate Size
18 x 16 cm



Item# **SE600-15-1.5**

Includes:

Upper Buffer Chamber
Safety Lid w/ High Voltage Leads
SE 600 Lower Buffer Chamber
Heat Exchanger
Glass Plates 18 x 16 cm - 3 matched pairs
Clamp Assemblies, 16 cm - 4 pcs
Cams - 6 pcs
Slotted Gaskets for UBC - 2 pcs
Dual Gel Casting Stand with Leveling Base
Spirit Level
Laminated Gaskets for Caster - 2 pcs
Buffer Dam
Spacer-Mate - Alignment Template
Wonder Wedge - Plate Separation Tool
Gel Seal
Combs, 15-Well - 2 pcs
Spacers, 1.5-mm thick (2-cm wide) - 4 pcs

Item# **SE600**

Includes: The same as above without the combs & spacers.

Order two SE 511 Combs & two sets of 16-cm long Spacers separately, see page 10.

SE660 ORDERING INFORMATION

Max. Glass Plate Size
18 x 24 cm



Item# **SE660**

Order two SE 511 Combs & two sets of 24-cm long Spacers separately, see page 10.

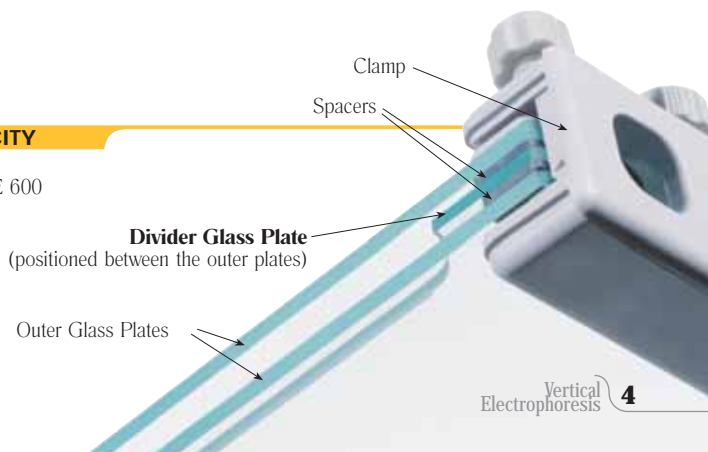
Includes:

Upper Buffer Chamber
Safety Lid w/ High Voltage Leads
SE 660 Lower Buffer Chamber
Heat Exchanger
Glass Plates 18 x 24 cm - 3 matched pairs
Clamp Assemblies, 8 cm - 4 pcs
Clamp Assemblies, 16 cm - 4 pcs
Cams - 6 pcs
Slotted Gaskets for UBC - 2 pcs
Dual Gel Casting Stand with Leveling Base
Spirit Level
Laminated Gaskets for Caster - 2 pcs
Buffer Dam
Spacer-Mate - Alignment Template
Wonder Wedge - Plate Separation Tool
Gel Seal

DIVIDER PLATES DOUBLE GEL CAPACITY

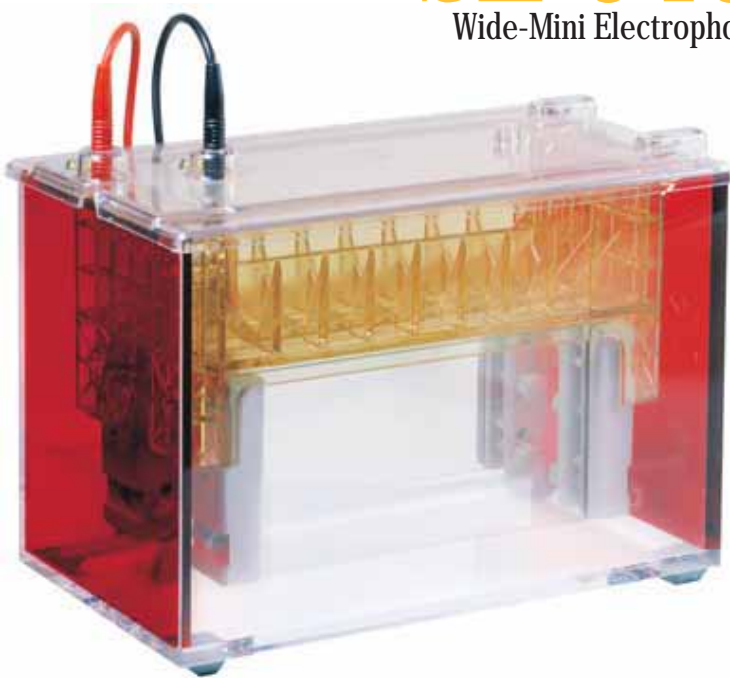
Run as many as four 0.75-, 1.0- or 1.5-mm thick gels on SE 600 Series units and two gels on the SE 400 Series at one time **under identical conditions.**

How it works: Fit a divider plate between the glass plates that make up a single sandwich. Put spacers on each side of the divider plate to form two gel cavities for pouring gels. This two-gel "club sandwich" fits into the same casting stand and seals perfectly.



SE 640

Wide-Mini Electrophoresis Systems



The HOEFER SE 640 VERTICAL ELECTROPHORESIS UNIT is a wide-mini system, ideal for rapid screening of multiple samples. With the accessory divider plates you can complete a run of up to 112 samples in as little as 40 minutes!

- ▶ Permits rapid screening of up to 112 samples at one time.
- ▶ Design permits gels to be surrounded uniformly by buffer so heat dissipation is efficient. Bands are sharp and lanes are straight.
- ▶ Accommodates denaturing or native polyacrylamide gels.
- ▶ Run up to four 2-D gels using IEF strips or tube gels.
- ▶ Ideal for optimizing 2DE protocols.

ORDERING INFORMATION

Max. Glass Plate Size
18 x 8 cm



SE 640 Vertical Electrophoresis Unit, Complete
Item# **SE640-15-1.5**

Includes:

- SE 640 Lower Buffer Chamber
- SE 640 Upper Buffer Chamber
- Glass Plates 18 x 8 cm - 3 matched pairs
- 8 cm Clamp Assemblies - 4 pcs
- Cams - 6 pcs
- Dual Casting Stand w/Leveling Base
- Laminated Gaskets for Casting Stand - 2 pcs
- Slotted Gaskets for UBC - 2 pcs
- Buffer Dam
- Spacer-Mate alignment template
- Wonder Wedge plate separation tool
- Gel Seal
- Spirit Level
- SE 600/660 Lid
- 15-Well Combs - 2 pcs
- 1.5-mm Thick Spacers (2-cm wide) - 4 pcs

SE 640 Vertical Electrophoresis Unit, Basic
Item# **SE640 (without combs & spacers)**

Order SE 511 Comb and two sets of 8-cm long Spacers separately, see page 10.

Includes:

- SE 640 Lower Buffer Chamber
- SE 640 Upper Buffer Chamber
- Glass Plates 18 x 8 cm - 3 matched pairs
- 8 cm Clamp Assemblies - 4 pcs
- Cams - 6 pcs
- Dual Casting Stand w/Leveling Base
- Laminated Gaskets for Casting Stand - 2 pcs
- Slotted Gaskets for UBC - 2 pcs
- Buffer Dam
- Spacer-Mate alignment template
- Wonder Wedge plate separation tool
- Gel Seal
- Spirit Level
- SE 600/660 Lid

TECHNICAL SPECIFICATIONS

Glass Plate Size: 18 x 8 cm

Spacers: 0.75 mm, 1.0 mm, 1.5 mm

Maximum Power Settings:

1000 V, 500 mA and 50 W

Operating Conditions:

Maximum Temperature: 45 °C
Environmental Operating Conditions:
Indoor Use: 4 - 40 °C
Humidity: up to 80%
Altitude: up to 2000 m

Unit Dimensions (W x H x D):

32 x 29 x 14 cm (12.5 x 11.5 x 5.5 in)

Safety Certifications

EN61010-1, UL3101-1, CSA C22.2 1010.1, CE

Accessories & Spare Parts

Most of the spare parts are shared with the larger SE 600 (see pages 8-10), EXCEPT for the following:

UBC for SE 640, Item# **SE6454**

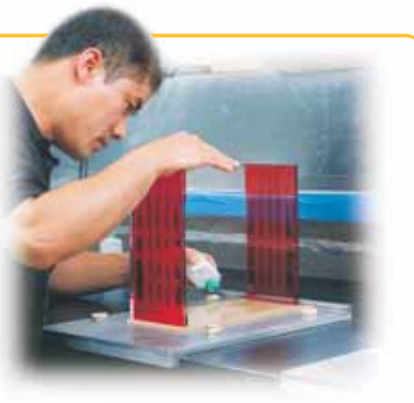
LBC for SE 640, Item# **SE6450**

Buffer Dam for SE 640, Item# **SE6432**

CRAFTSMANSHIP AT ITS BEST!

Hoefer has been fabricating scientific instruments for decades. You will never see bubbles or gaps in our glue seams. We use the correct environment, formula and technique to get perfect results every time.

The result is products that perform and look the best - that's our reputation.



SE 400 Series Sturdier vertical gel units live up to their name. Affordably priced, the SE 400 and SE 410 are ideal for laboratories requiring several units and for applications where temperature control is not crucial.

SE 400 Series

Sturdier™ Air-Cooled Vertical Electrophoresis



SE 400 runs one 16-cm long gel.
SE 410, the taller version of the SE 400, runs one 24-cm long gel.

- ▶ The rugged injection-molded construction is durable and assembles easily.
- ▶ Run two gels with the addition of a divider plate.
- ▶ Built-in casting stand seals leak-free.
- ▶ Choose from a wide variety of accessories.
- ▶ Plates, clamps, spacers and combs are interchangeable with the SE 600.



SE400 ORDERING INFORMATION

Max. Glass Plate Size
18 x 16 cm

1-2
GELS

Item# SE400-15-1.5

Includes:

- Upper Buffer Chamber
- Safety Lid with Electrodes
- Lower Buffer Chamber & Casting Stand on Leveling Base with High Voltage Leads
- Glass Plates, 18 x 16 cm - matched pair
- Clamp Assemblies, 16 cm - 2 pcs
- Cams - 2 pcs
- Slotted Gasket for UBC
- Spirit Level
- Laminated Gasket for Casting Stand
- Spacer-Mate - Alignment Template
- Wonder Wedge - Plate Separation Tool
- Gel Seal
- Comb, 15-Well
- Spacers, 1.5-mm thick (2-cm wide) - 2 pcs

TECHNICAL SPECIFICATIONS

Glass Plate Size
SE 400: 18 x 16 cm
SE 410: 18 x 24 cm

Spacers: 0.75 mm, 1.0 mm, 1.5 mm

Maximum Power Settings:
500 V @ 40 mA, 30 mA per gel, 20 W

Operating Conditions:
Maximum Temperature: 45 °C
Environmental Operating Conditions:
Indoor Use: 4 - 40 °C
Humidity: up to 80%
Altitude: up to 2000 m

Unit Dimensions (W x H x D):
SE 400: 24 x 28 x 15 cm (9.5" x 11" x 6")
SE 410: 24 x 36 x 15 cm (9.5" x 14.2" x 6")

Safety Certifications
EN61010-1,
UL3101-1,
CSA C22.2 1010.1
CE

SE410 ORDERING INFORMATION

Max. Glass Plate Size
18 x 24 cm

1-2
GELS

Item# SE410 (without combs & spacers)
Order SE 511 Comb and a set of 24-cm long Spacers separately, see page 10.

Includes:

- Upper Buffer Chamber
- Safety Lid with Electrodes
- Lower Buffer Chamber & Casting Stand on Leveling Base with High Voltage Leads
- Glass Plates, 18 x 24 cm - matched pair
- Clamp Assemblies, 8 cm - 2 pcs
- Clamp Assemblies, 16 cm - 2 pcs
- Cams - 2 pcs
- Slotted Gasket for UBC
- Spirit Level
- Laminated Gasket for Casting Stand
- Spacer-Mate - Alignment Template
- Wonder Wedge - Plate Separation Tool
- Gel Seal

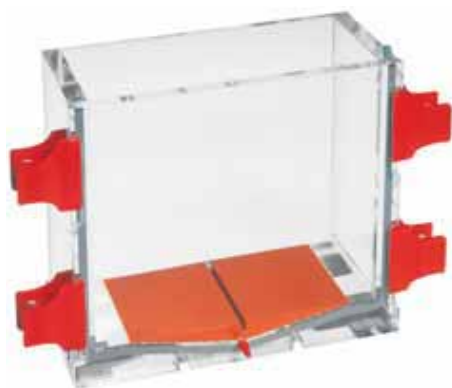
Multiple Gel Casters allow you to cast several uniform or gradient gels at a time under identical conditions.

Gel Casters

For SE 600 & SE 400 Series Vertical Electrophoresis

Multiple Gel Casters

- ▶ SE 675 casts up to four 8- or 16-cm long gels.
- ▶ SE 615 casts up to ten 8- or 16-cm long gels.
- ▶ Easy to use and leak-free.
- ▶ Cast uniform or gradient gels. Pour uniform gels directly into the top of the casting chamber; pour gradient gels through an inlet port at the bottom.



Dual Gel Caster

SE 6015 Dual Gel Caster is part of the package when you order an SE 600 Series unit. It can also be ordered separately.

- ▶ Casts two 8-, 16-, or 24-cm long gels at a time.
- ▶ Easy to use and leak-free.
- ▶ Glass sandwiches seal into the casting cradle with a simple twist of the cams.



SE615 ORDERING INFORMATION

Max. Glass Plate Size
18 x 16 cm



SE 615 Multiple Gel Caster
Item# SE615

Order SE 511 Combs and sets of Spacers separately, see page 10.

Includes:

- Caster Body with Gasket
- Face Plate
- Clamps - 4 pcs
- Glass Plates, 18 x 16 cm - 10 matched pairs
- Filler Sheets - 5 pcs
- Wax Paper - 100 sheets, precut
- Spacer-Mate - Alignment Template
- Thumbscrews - 2 pcs
- Filler Plug
- Black Vinyl Cap
- Gel Seal
- Spirit Level

SE675 ORDERING INFORMATION

Max. Glass Plate Size
18 x 16 cm



SE 675 Four Gel Caster
Item# SE675

Order SE 511 Combs and sets of Spacers separately, see page 10.

Includes:

- Caster Body with Gasket
- Face Plate
- Clamps - 4 pcs
- Glass Plates, 18 x 16 cm - 4 matched pairs
- Filler Sheets - 5 pcs
- Wax Paper - 100 sheets, precut
- Spacer-Mate - Alignment Template
- Thumbscrews - 2 pcs
- Filler Plug Set
- Black Vinyl Cap
- Gel Seal
- Spirit Level

SE6015 ORDERING INFORMATION

Max. Glass Plate Size
18 x 24 cm



SE 6015 Dual Gel Caster
Item# SE6015

Order Glass Plates, SE 511 Combs and sets of Spacers separately, see page 10.

Includes:

- Caster Stand with 2 Cradles & Leveling Feet
- Laminated Gaskets - 2 pcs



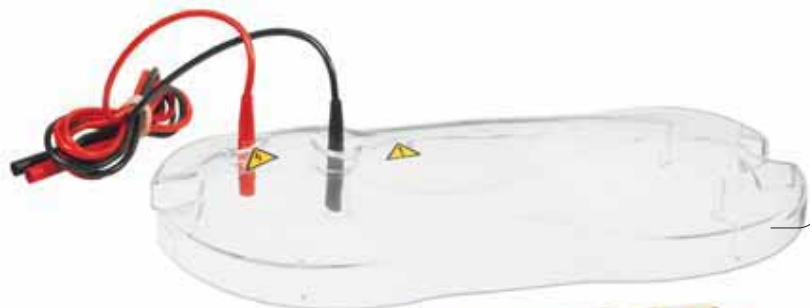
Silicone Filler Plug (for SE 615)
Item# SE618



Silicone Filler Plug Set (for SE 675)
Item# SE678

Accessories & Spare Parts

SE 600 Vertical Electrophoresis



Lid for SE 600X Chroma
Item# **SE6056X**



Upper Buffer Chamber (UBC)
for SE 600 Series
Item# **SE6054**

Slotted Gaskets - 2 pcs
for UBC
Item# **SE6008B**

Buffer Dam
Item# **SE6032**



Cams Black - 4 pcs
Item# **SE6005L**



Clamp Assembly
8 cm - 2 pcs
Item# **SE6403U**



Glass Plates & Spacers
See page 10

Clamp Assembly 16 cm - 2 pcs
Item# **SE6003U**

Clamp & Cam Kit
Includes:
Clamp Assembly 16 cm - 4 pcs
Cams Black - 8 pcs
Item# **SE6003UK** (not pictured)

Heat Exchanger
for SE 600 Series
Item# **SE6160**



Laminated Gaskets - 2 pcs
for Casting Stand
Item# **SE6009**

Spirit Level
Item# **SER11**

Casting Stand
Includes:
Caster Stand with 2 Cradles
Leveling Feet
Laminated Gaskets - 2 pcs
Item# **SE6015**



Lid for SE 600/660
Item# **SE6056**



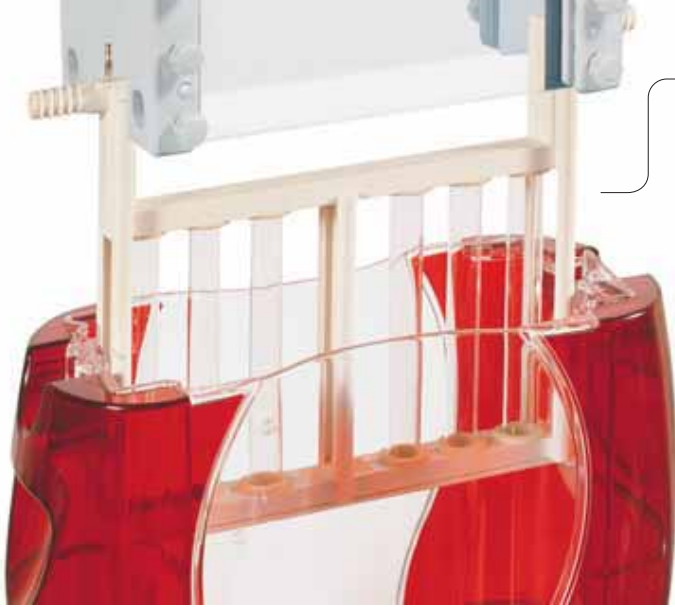
Lower Buffer Chamber (LBC)
for SE 600
Item# **SE6150**



Lower Buffer Chamber (LBC)
for SE 660
Item# **SE6650**

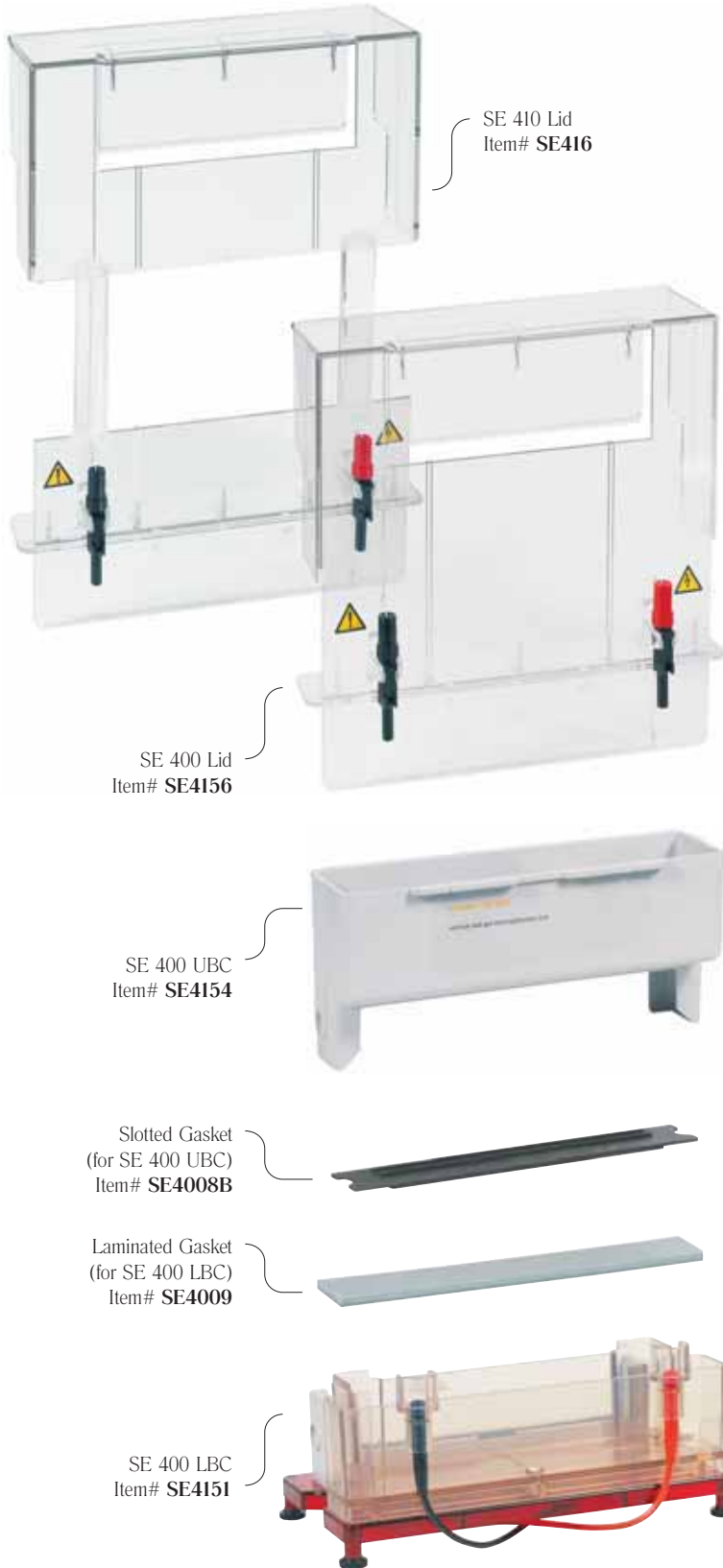


Lower Buffer Chamber (LBC)
for SE 600X Chroma
Item# **SE6150X**

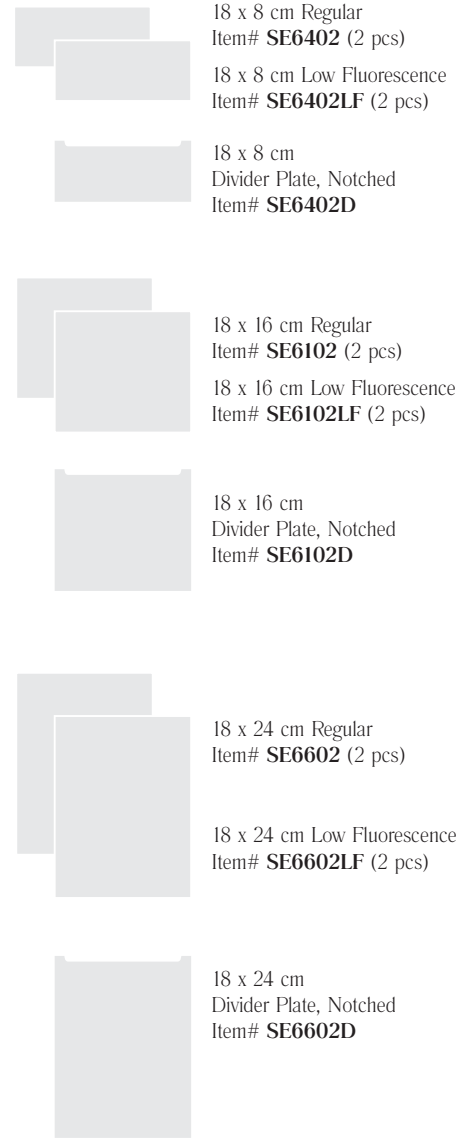


Accessories & Spare Parts

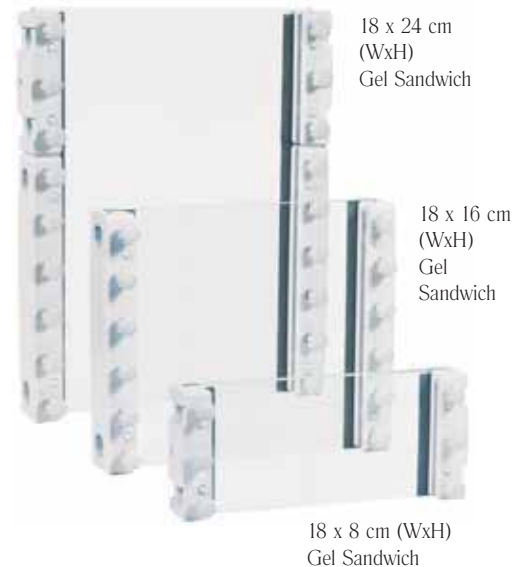
SE 600 & SE 400 Vertical Electrophoresis



GLASS PLATES

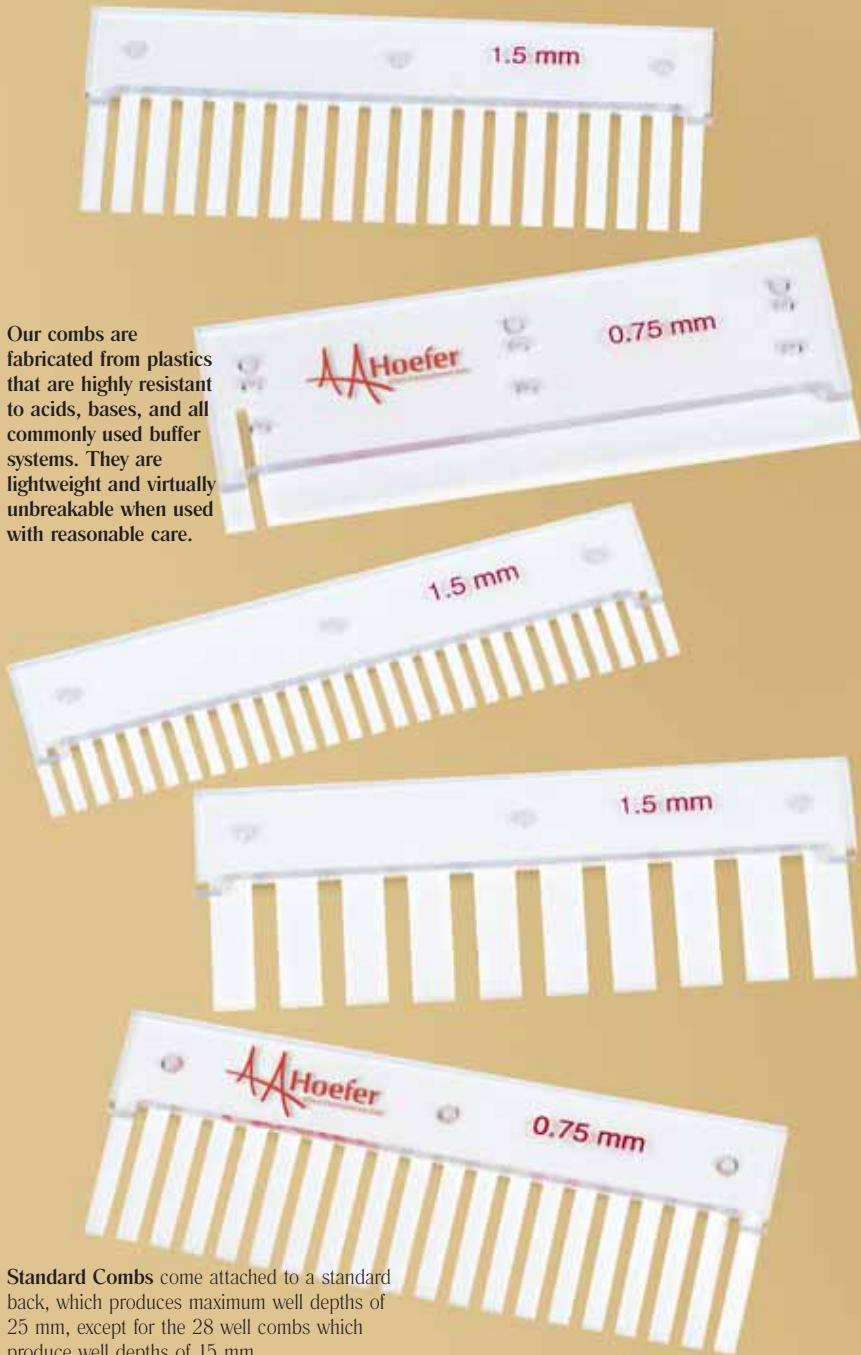


GEL SANDWICH COMPARISON



COMBS

Our combs are fabricated from plastics that are highly resistant to acids, bases, and all commonly used buffer systems. They are lightweight and virtually unbreakable when used with reasonable care.



Standard Combs come attached to a standard back, which produces maximum well depths of 25 mm, except for the 28 mm wells which produce well depths of 15 mm.

# of Wells	Thickness	Well Width	Qty.	Item#
10	0.75 mm	8.3 mm	1	SE511-10-75
10	1.0	8.3	1	SE511-10-1.0
10	1.5	8.3	1	SE511-10-1.5
12	0.75	7.6	1	SE511-12-75
12	1.0	7.6	1	SE511-12-1.0
12	1.5	7.6	1	SE511-12-1.5
15	0.75	5.7	1	SE511-15-75
15	1.0	5.7	1	SE511-15-1.0
15	1.5	5.7	1	SE511-15-1.5
20	0.75	4.1	1	SE511-20-75
20	1.0	4.1	1	SE511-20-1.0
20	1.5	4.1	1	SE511-20-1.5
28	0.75	2.7	1	SE511-28-75
28	1.0	2.7	1	SE511-28-1.0
28	1.5	2.7	1	SE511-28-1.5

Adjustable Comb Back 1 SE511-BKA
(Converts 25-mm deep comb to 10 or 15-mm depth)

Preparative Combs have adjustable comb backs (10-, 15- and 25-mm depth).

# of Wells	Thickness	Well Width	Qty.	Item#
1/1	0.75 mm	121/6 mm	1	SE511-R-75
1/1	1.0	121/6	1	SE511-R-1.0
1/1	1.5	121/6	1	SE511-R-1.5
1/2	0.75	113/6	1	SE511-DR-75
1/2	1.0	113/6	1	SE511-DR-1.0
1/2	1.5	113/6	1	SE511-DR-1.5



SPACERS

0.75-mm Thick

1.0-mm Thick

1.5-mm Thick

2 cm Width

1 cm Width

All 1.0 mm Spacers are white for easy identification.

All spacers are molded from durable plastics for high chemical resistance and optimum tensile strength.

Thickness	Length	Width	Qty.	Item#
0.75 mm	8 cm	2 cm	2	SE6419-2-75
1.0	8	2	2	SE6419-2-1.0
1.5	8	2	2	SE6419-2-1.5
0.75	16	2	2	SE6119-2-75
1.0	16	2	2	SE6119-2-1.0
1.5	16	2	2	SE6119-2-1.5
0.75	24	2	2	SE6619-2-75
1.0	24	2	2	SE6619-2-1.0
1.5	24	2	2	SE6619-2-1.5
1.0	16	1	2	SE6118-2-1.0
1.5	16	1	2	SE6118-2-1.5



Gel Seal
Item# SE6070



Clamp Thumbscrews - 12 pk
(for 8 or 16 cm Clamp)
Item# SE6003U-2



High-Voltage Safety Lead Set
Item# SE6056-HV



Wonder Wedge Plate Separation Tool
Item# SE1514



Protein Electrophoresis

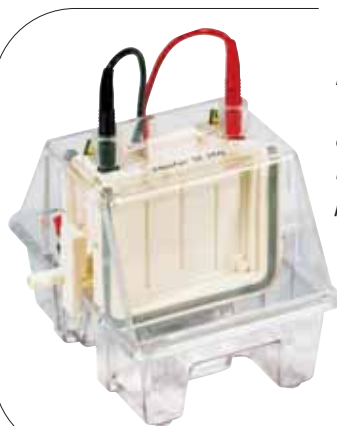
Small Format Vertical Electrophoresis

Hoefler's small format vertical electrophoresis systems require reduced gel and buffer volumes and shorter separation times than the standard sized units.



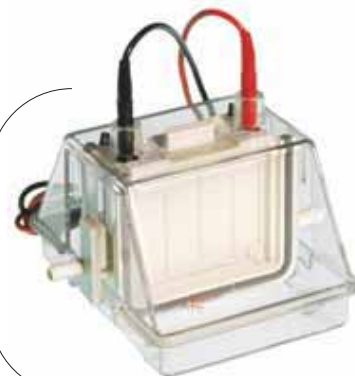
The SE 300 MINI VERTICAL UNIT allows you to cast, run, and blot two gels in 10 x 10.5 cm glass plates in one convenient instrument. Tank-format passive cooling assures the temperature uniformity required to achieve straight lanes and flat bands.

SE 300 E
SMALL FORMAT INTEGRATED
ELECTROPHORESIS a BLOTTING UNIT
SEE GE



The SE 250 and SE 260 MIGHTY SMALL VERTICAL ELECTROPHORESIS UNITS run two mini gels at a time. SE 250 runs gels cast in 10 x 8 cm glass plates; the SE 260, in 10 x 10.5 cm glass plates. The small formats combined with efficient cooling allow rapid screening of proteins and nucleic acids.

SE 260
HOEFER MIGHT SMALL II
MINI VERTICAL UNIT
SEE GE



SE 250
HOEFER MIGHT SMALL II
MINI VERTICAL UNIT
SEE GE



Separate, simple-to-use GEL CASTERS allow you to cast multiple gels at one time under uniform conditions.

CASTERS FOR
SMALL FORMAT VERTICAL
ELECTROPHORESIS
SEE GE

Alumina Plates and Glass Plates
SEE GE

A wide array of well-forming COMBS AND SPACERS allows you to tailor gel configurations to your needs.
SEE GE

S

ii

Small Format Integrated Electrophoresis and Blotting Unit

The HOEFER miniVE unit allows you to perform both electrophoresis and electrotransfer in one sturdy, compact unit.

- ▶ Cast, run, and blot two long mini gels in one instrument.
- ▶ Quick, excellent results use minimal buffer.
- ▶ Efficient cooling produces gels with straight lanes and flat bands.
- ▶ Cast your own or use pre-cast gels from a variety of manufacturers.
- ▶ Transfer 4 gels in 45 minutes with only 300 ml buffer using optional SE 302 Blot Modules.
- ▶ Sturdy, safe, and easy to use.



ORDERING INFORMATION

Max. Glass Plate Size
1 x 1 . cm

1-2
GELS



SE 300 miniVE
Item# SE300-10A-1.0

Includes:

Lower Buffer Chamber (Tank)
Gel Modules with Gaskets - 2 assemblies
Safety Lid with High Voltage Leads
Glass Plates, Rectangular, 10 x 10.5 cm - 3 pcs
Glass Plates, Notched, 10 x 10.5 cm - 3 pcs
Combs, 10-well - 2 pcs
T-Spacers, 1.0-mm thick - 4 pcs
Well-Locating Decals - 2 pcs
Wonder Wedge Plate Separation Tool
Gel Seal



SE 302 Blot Module
Item# SE302

Includes:

Blot Module
Foam Sponges 6 mm thick - 3 pcs
Blotter Paper - 25 sheets

TECHNICAL SPECIFICATIONS

Glass Plate Size: 10 x 10.5 cm or 10 x 8 cm

Spacers: 0.75 mm, 1.0 mm, 1.5 mm

Maximum Power Settings

for electrophoresis: 500 V and 25 W per module
for blotting: 400 mA and 15 W per module

Operating Conditions

Maximum Temperature: 45 °C
Environmental Operating Conditions:
Indoor Use: 4 - 40 °C
Humidity: up to 80%
Altitude: up to 2000 m

Unit Dimensions (W x H x D):

19.2 x 17.2 x 18.8 cm (7.6" x 6.8" x 7.4")

Safety Certifications

EN61010-1, UL3101-1, CSA C22.2 1010.1, CE

Spare Parts

miniVE

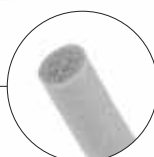
miniVE Lid w/high-voltage leads
Item# SE306



miniVE Banana Plug Kit
(2 plugs, 2 nuts, 4 washers)
Item# SE314



Gasket, 100 cm
Item# FH2208



miniVE Clamp Screws (5 pcs)
Item# SE311



miniVE Clamp Assembly
Item# SE310



miniVE UBC Assembly
with Gasket & Banana Plug Kit
Item# SE309



miniVE Sealing Plate Assembly
(includes Sealing Gasket)
Item# SE312



miniVE Sealing Gasket
Item# SE313



miniVE Tank (LBC)
Item# SE308

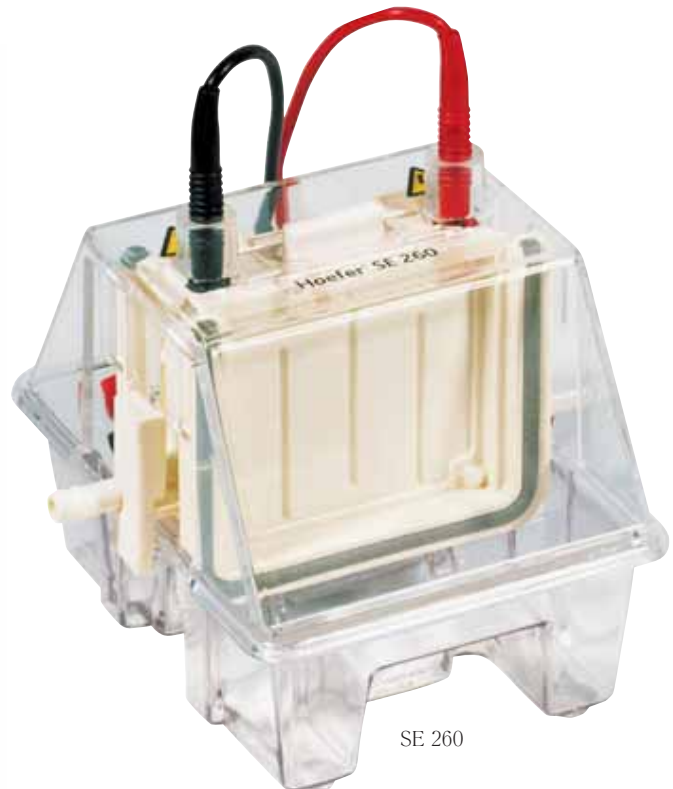
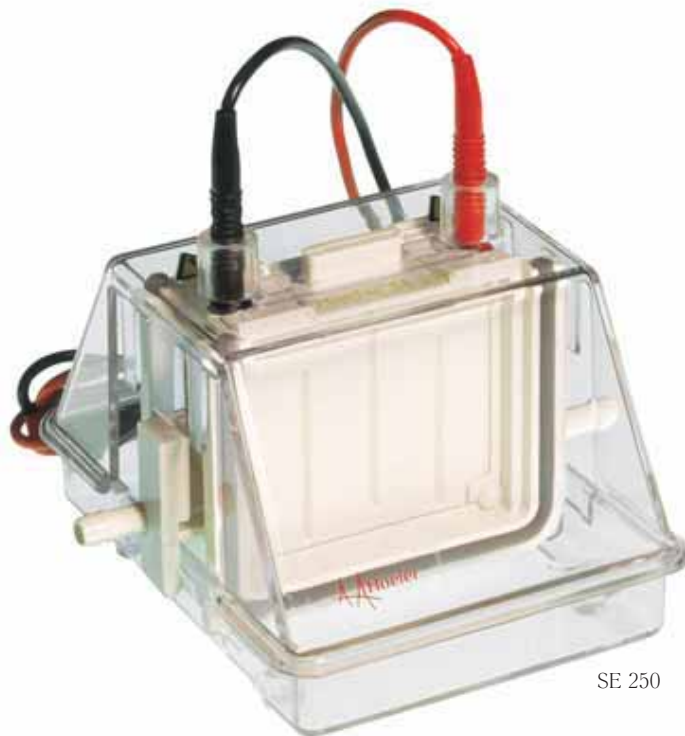


it's all

Small Format Vertical Electrophoresis

The Hofer SE 250 combines the advantages of small format and efficient cooling for rapid screening of proteins and nucleic acids. The Hofer SE 260 runs taller gels with the same efficient cooling and compact design.

- ▶ SE 250 runs two gels cast in 10 x 8 cm glass plates.
- ▶ SE 260 runs two gels cast in 10 x 10.5 cm glass plates; 30% more resolving distance for complex samples.
- ▶ Run as many as 30 sample lanes.
- ▶ Efficient cooling ensures flat bands.
- ▶ Quick to assemble; easy and safe to use.
- ▶ Requires minimal buffer.
- ▶ Choose from a wide variety of accessories.



TECHNICAL SPECIFICATIONS

Glass Plate Size

SE 250: 10 x 8 cm
SE 260: 10 x 10.5 cm or 10 x 8 cm

Spacers: 0.75 mm, 1.0 mm, 1.5 mm

Maximum Power Settings: 500 V, 500 mA, 12 W

Operating Conditions:

Maximum Temperature: 45 °C
Environmental Operating Conditions:
Indoor Use: 4 - 40 °C
Humidity: up to 80%
Altitude: up to 2000 m

Unit Dimensions (W x H x D):

SE 250: 16.5 x 16 x 16 cm (6.5" x 6.3" x 6.3")
SE 260: 16.5 x 18 x 16 cm (6.5" x 7.1" x 6.3")

Safety Certifications

EN61010-1, UL3101-1, CSA C22.2 1010.1 and CE

SE250 ORDERING INFORMATION

Max. Glass Plate Size
1 x 8 cm

1-2
GELS

Item# SE250-10A-75

Includes:

Lower Buffer Chamber
Upper Buffer Chamber / Cooling Core
Safety Lid with High Voltage Leads
Casting Cradle w/Sealing Gasket Set
Casting Clamp Assemblies - 2 pcs
Cams - 4 pcs
Glass Plates, Rectangular, 10 x 8 cm - 10 pcs
Alumina Plates, Notched, 10 x 8 cm - 2 pcs
Spring Clamps, Red - 4 pcs
Combs, 10-well - 2 pcs
T-Spacers, 0.75-mm thick - 4 pcs
Well-Locating Decals - 2 pcs
Gel Seal

SE260 ORDERING INFORMATION

Max. Glass Plate Size
10 x 10.5 cm

1-2
GELS

Item# SE260-10A-75

Includes:

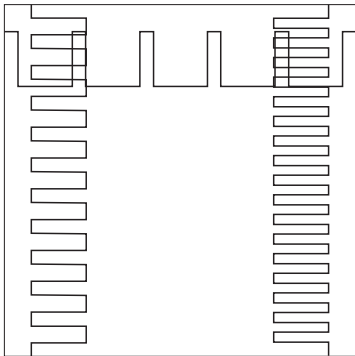
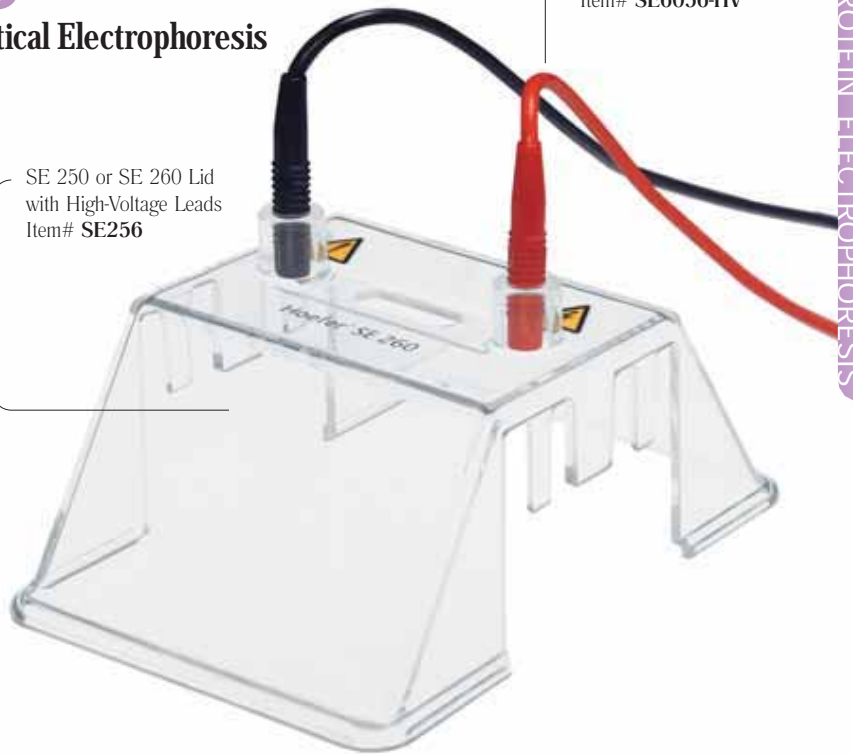
Lower Buffer Chamber
Upper Buffer Chamber / Cooling Core
Safety Lid with High Voltage Leads
Casting Cradle w/Sealing Gasket Set
Casting Clamp Assemblies - 2 pcs
Cams - 4 pcs
Glass Plates, Rectangular, 10 x 10.5 cm - 10 pcs
Alumina Plates, Notched, 10 x 10.5 cm - 2 pcs
Spring Clamps, Red - 4 pcs
Combs, 10-well - 2 pcs
T-Spacers, 0.75-mm thick - 4 pcs
Well-Locating Decals - 2 pcs
Gel Seal

Spare Parts

Mighty Small Small Format Vertical Electrophoresis

High-Voltage Leads
Item# SE6056-HV

SE 250 or SE 260 Lid
with High-Voltage Leads
Item# SE256



Decal, Well-Locating
Item# SE212



QuickFit connectors,
female 1/4" (2 pcs)
Item# QF1/4

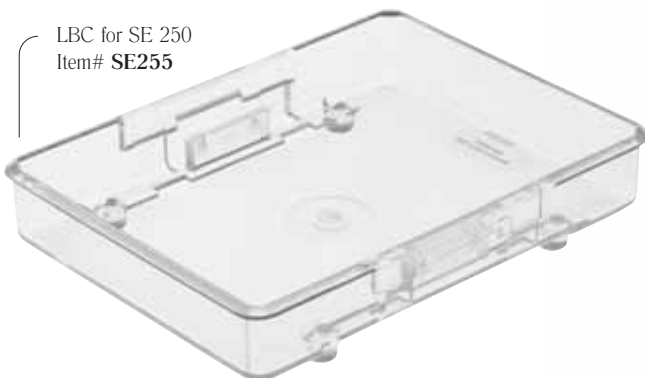


QuickFit connectors,
female 3/8" (2 pcs)
Item# QF3/8

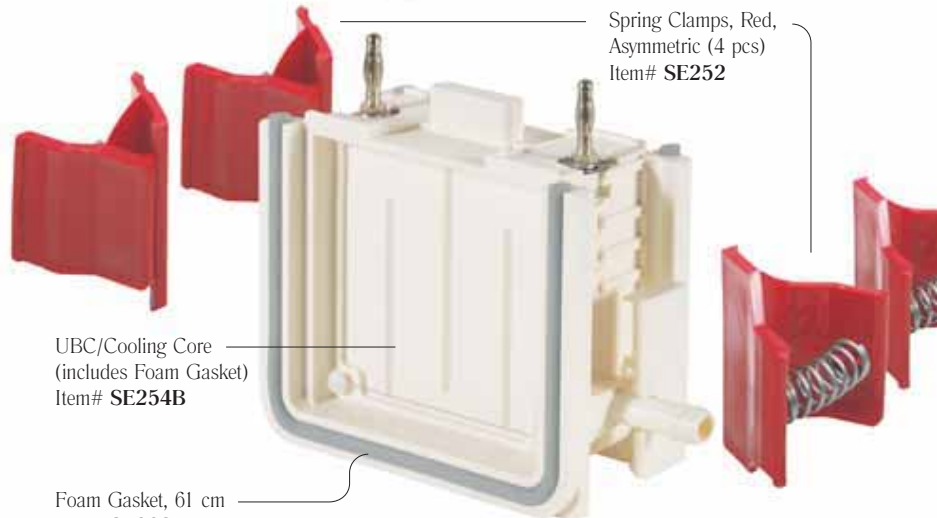
QuickFit connectors,
male 3/8" (2 pcs)
Not Pictured
Item# QFX3/8

Hardware Repair Kit - Not Pictured
(2 banana plugs, 6 washers, 2 nuts,
Teflon tubing 3" (3 pcs), 4 acetal rivets)
Item# SE250RK-1

LBC for SE 250
Item# SE255



Spring Clamps, Red,
Asymmetric (4 pcs)
Item# SE252



UBC/Cooling Core
(includes Foam Gasket)
Item# SE254B

Foam Gasket, 61 cm
Item# SE208

LBC for SE 260
Item# SE255D



Multiple Gel Casters allow you to cast several uniform or gradient gels at a time under identical conditions.

Gel Casters

Small Format Vertical Electrophoresis

Multiple Gel Casters

HOEFER'S SE 215 and SE 275 MULTIPLE GEL CASTERS allow you to cast several uniform or gradient gels in 10 x 8 cm plates under identical conditions.

- ▶ SE 275 casts from 1 to 4 gels simultaneously; SE 215 casts as many as 10 gels simultaneously.
- ▶ Pour uniform gels from the top; pump gradient gels into an inlet port at the bottom of the unit.
- ▶ Sandwiches fill at the same time at the same rate from the same solution. The result: identical gels.
- ▶ Glass plate sandwiches seal leak-free without the use of messy grease or tape.
- ▶ Once cast, gels can be wrapped in plastic and refrigerated for several weeks.



SE275 ORDERING INFORMATION

Max. Glass Plate Size
1 x 8 cm



SE 275 Four Gel Caster
Item# SE275

Combs & Spacers sold separately
(see pages 18-19)

Includes:

- Caster Body with Gasket
- Face Plate with Inlet Port
- Glass Plates, Rectangular, 10 x 8 cm - 10 pcs
- Alumina Plates, Notched, 10 x 8 cm - 4 pcs
- Spring Clamps, Red - 2 pcs
- Wax Paper - 100 sheets
- Space-Saver Plate
- Polycarbonate Filler Sheets - 5 pcs
- Black Vinyl Cap
- Filler Plug Set

SE215 ORDERING INFORMATION

Max. Glass Plate Size
1 x 8 cm



SE 215 Multiple Gel Caster
Item# SE215

Combs & Spacers sold separately
(see pages 18-19)

Includes:

- Caster Body with Gasket
- Face Plate with Inlet Port
- Glass Plates, Rectangular, 10 x 8 cm - 20 pcs
- Alumina Plates, Notched, 10 x 8 cm - 10 pcs
- Spring Clamps, Red - 2 pcs
- Wax Paper - 100 sheets
- Space-Saver Plate
- Polycarbonate Filler Sheets - 5 pcs
- Black Vinyl Cap
- Filler Plug Set

Dual Gel Caster

Cast one or two gels with the SE 245 DUAL GEL CASTER.

- ▶ Accommodates both 10 x 8 cm and 10 x 10.5 cm plates.
- ▶ Uses the same rugged and effective clamp/cam casting method as used with the SE 400 and SE 600.



SE245 ORDERING INFORMATION

Max. Glass Plate Size
1 x 1 . cm



SE 245 Dual Gel Caster
Item# SE245

Includes:

- Casting Cradle
- Casting Clamp Assemblies - 2 pcs
- Sealing Gasket Set
- Cams - 4 pcs

Accessories

SE 215 and SE 275

- Wax Paper Sheets (100 pcs), Item# SE201
- Filler Sheets, Polycarbonate (5 pcs), Item# SE213
- Space-saver Plate, Item# SE217
- Face Plate, Item# SE218
- Filler Plug Set for SE 215 (3 pcs), Item# SE209
- Filler Plug Set for SE 275 (3 pcs), Item# SE279
- Foam Gaskets, (61 cm), Item# SE208
- Spring Clamps, Red, (4 pcs), Item# SE252
- Red Inlet/Outlet Fitting, Item# XPO10

SE 245

- Sealing Gasket Set, Item# SE246
- Cams (4 pcs), Item# SE6005L
- Casting Clamp Assembly, Item# SE249
- Clamp Thumbscrews (12 pcs), Item# SE6003U-2

Accessories

Small Format Vertical Electrophoresis

COMBS

Combs: Standard

# of Wells	Thickness	Well Width	Well Volume (µl per 1 mm depth)	Qty.	Item#
5	0.75 mm	13.0 mm	9.8	1	SE21 1A-5-.75
5	1.0	13.0	13.0	1	SE21 1A-5-1.0
5	1.5	13.0	19.5	1	SE21 1A-5-1.5
9*	1.0	5.8	5.8	1	SE21 1A-9-1.0
10	0.75	4.8	3.6	1	SE21 1A-10-.75
10	1.0	4.8	4.8	1	SE21 1A-10-1.0
10	1.5	4.8	7.2	1	SE21 1A-10-1.5
15	0.75	2.9	2.2	1	SE21 1A-15-.75
15	1.0	2.9	2.9	1	SE21 1A-15-1.0
15	1.5	2.9	4.4	1	SE21 1A-15-1.5
18*	1.0	2.9	2.9	1	SE21 1A-18-1.0

*Microtiter Spacing

Combs: Preparative

Preparative Combs form 1 large preparative well plus 1 small reference well.

# of Wells	Thickness	Well Width	Well Volume (µl per 1 mm depth)	Qty.	Item#
1/1	0.75 mm	68/5 mm	51/3.8	1	SE21 1A-R-.75
1/1	1.0	68/5	68/5	1	SE21 1A-R-1.0
1/1	1.5	68/5	120/7.5	1	SE21 1A-R-1.5



Wonder Wedge
Plate Separation Tool
Item# SE1514



Spirit Level
Item# SER11



Gel Seal 1/4 oz.
Item# SE6070

GLASS PLATES

10 x 8 cm (10 pcs)
Rectangular Glass Plates
Item# SE202P-10

10 x 8 cm (5 pcs)
Notched Glass Plates
Item# SE202GN-5

10 x 10.5 cm (5 pcs)
Rectangular Glass Plates
Item# SE262P-5

10 x 10.5 cm (5 pcs)
Notched Glass Plates
Item# SE262GN-5

ALUMINA PLATES

10 x 8 cm (1 pc)
Notched Alumina Plates
Item# SE202N

10 x 8 cm (10 pcs)
Notched Alumina Plates
Item# SE202N-10

10 x 10.5 cm (5 pcs)
Notched Alumina Plates
Item# SE262N-5

T-SPACERS

All spacers are molded from durable plastics for high chemical resistance and optimum tensile strength.

Thickness	Length	Width	Qty.	Item#
0.75 mm	8 cm	1 cm	2	SE2119T-2-.75
1.0	8	1	2	SE2119T-2-1.0
1.5	8	1	2	SE2119T-2-1.5
0.75	10.5	1	2	SE2619T-2-.75
1.0	10.5	1	2	SE2619T-2-1.0
1.5	10.5	1	2	SE2619T-2-1.5

0.75-mm
Thick

1.0-mm
Thick

1.5-mm
Thick

All 1.0 mm
T-Spacers are white
for easy identification.

ONL THE BEST



At Hoefler we use only the best in materials to ensure performance, quality and longevity. The lower buffer chamber of a Mighty Small II unit is wired with platinum wire.

S

Plate

Glass Plate Washer & Storage Kit

The SE 100 P E M E S E D S G E I dramatically reduces glass plate loss due to chipping and cracking.

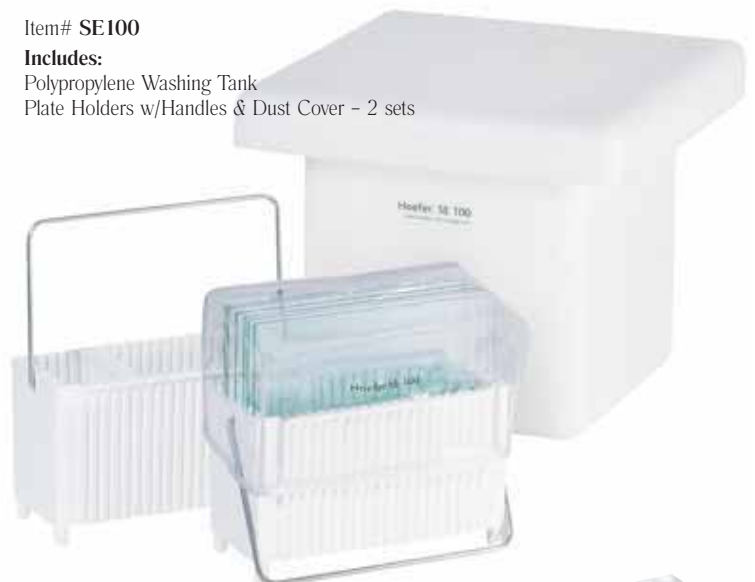
- ▶ Glass plates fit securely into the plate holders grooves for safe washing, rinsing, and storage.
- ▶ Stainless steel bail handles let you carry plate holders easily and set them safely into the washing bath.
- ▶ Accommodates forty 8-cm tall or twenty 18-cm wide plates.
- ▶ Holds as many as twenty 10.5-cm tall plates with the optional SE 103 long plate adapter accessory.

SE100 ORDERING INFORMATION

Item# SE100

Includes:

Polypropylene Washing Tank
Plate Holders w/Handles & Dust Cover - 2 sets



Long Plate Adapters - 2 pcs
Item# SE103



Plate Holder w/Handle & Dust Cover
Item# SE105

SE100 TECHNICAL SPECIFICATIONS

Holdings and Adapters

Each holder can hold either 10 SE 600 series glass plates in the long direction, or 20 SE 250 glass plates in the short direction. An optional adapter can also be used to adapt a holder to hold 10 SE 260 or miniVE glass plates.

Liquid Capacity of Tank

7 L to cover 18 x 16 cm plates
(for the SE 400, SE 600 Chroma or SE 600)
or
5 L to cover 10 x 8 cm and/or 10 x 10.5 cm plates
(SE 250, SE 260, miniVE)
Add more solution for larger plates, if required.

Materials:

Tank & Tank Lid: High-density Polyethylene
Holders: Polypropylene
Dust Covers: Vinyl
Handles: Stainless Steel

Operating Conditions: Maximum Temperature: 45 °C

SG Series

Gradient Makers

EE SM ME SG SE IES G DIE M E S are ideal for generating gradients of polyacrylamide, sucrose and cesium chloride. Choose from 15, 30, 50, or 100 ml sizes.

- ▶ Milled of heavy acrylic plastic with high quality, leak-free construction.
- ▶ Flat base provides stability atop magnetic stirrers. Comes with a support rod for attaching to a ring stand.
- ▶ Takes 1/8" or 4-mm ID tubing. With included adapters, can also take 2-mm ID or 22-gauge tubing.
- ▶ SG 100 is ideal for the Bio-Rad Mighty Small Gel Casters SE 275 for 4 gels or SE 215 for 10 gels.

SG 15 30 50 100 ORDERING INFORMATION



SG 15 Gradient Maker
(15 ml total volume)
Item# SG15



SG 30 Gradient Maker
(30 ml total volume)
Item# SG30



SG 50 Gradient Maker
(50 ml total volume)
Item# SG50



SG 100 Gradient Maker
(100 ml total volume)
Item# SG100

All 4 Models Include:
Gradient Maker w/Teflon Valves
Luer Outlet Fitting
Support Rod
Adapter Barbed Fitting
22-gauge Needle

The 500 ml SG 500 G DIE M E is made of two cylindrical acrylic chambers joined and mounted on a flat acrylic base.

- ▶ Simple push-pull valve opens and closes the passage between the reservoir and mixing chambers.
- ▶ Suitable for forming polyacrylamide gradients or buffer gradients used with medium to small chromatography columns.
- ▶ Ideal for use with the SE 615 Multiple Gel Caster.

SG 500 ORDERING INFORMATION



SG 500 Gradient Maker
(500 ml total volume)
Item# SG500

Includes:
Gradient Maker
w/ Push-Pull Valve
Wrap-and-Seal
Hose Clamps – 4 pcs