

# Integrated 2-Dimensional Electrophoresis System



A complete 2-D System that affords accurate separations and reproducible results.

## The PREMIER Integrated Hofer 2-D Electrophoresis Solution Includes:

- The IEF100 First-dimension Isoelectric Focusing Unit with the highest focusing voltage available
- The SE900 Second-dimension Gel Electrophoresis Unit which runs up to six 28 cm gels simultaneously

**1<sup>ST</sup>**  
Dimension

## Hoefer IEF100 First-dimension Isoelectric Focusing Unit



### For fast, simple and reproducible first-dimension IEF separations in 2-D using IPG strips!

- Flexible first-dimension IEF can be run with up to six 24 cm IPG strips of any length
- Turn and click intuitive user interface with individual, real time, graphical strip monitoring
- Faster run times enabled with an integrated 12,000 V power supply that has both the highest voltage and current commercially available
- Ethernet and RS232 ports easily accessible on the instrument front
- Safety Certified, designed and manufactured in the U.S.A.

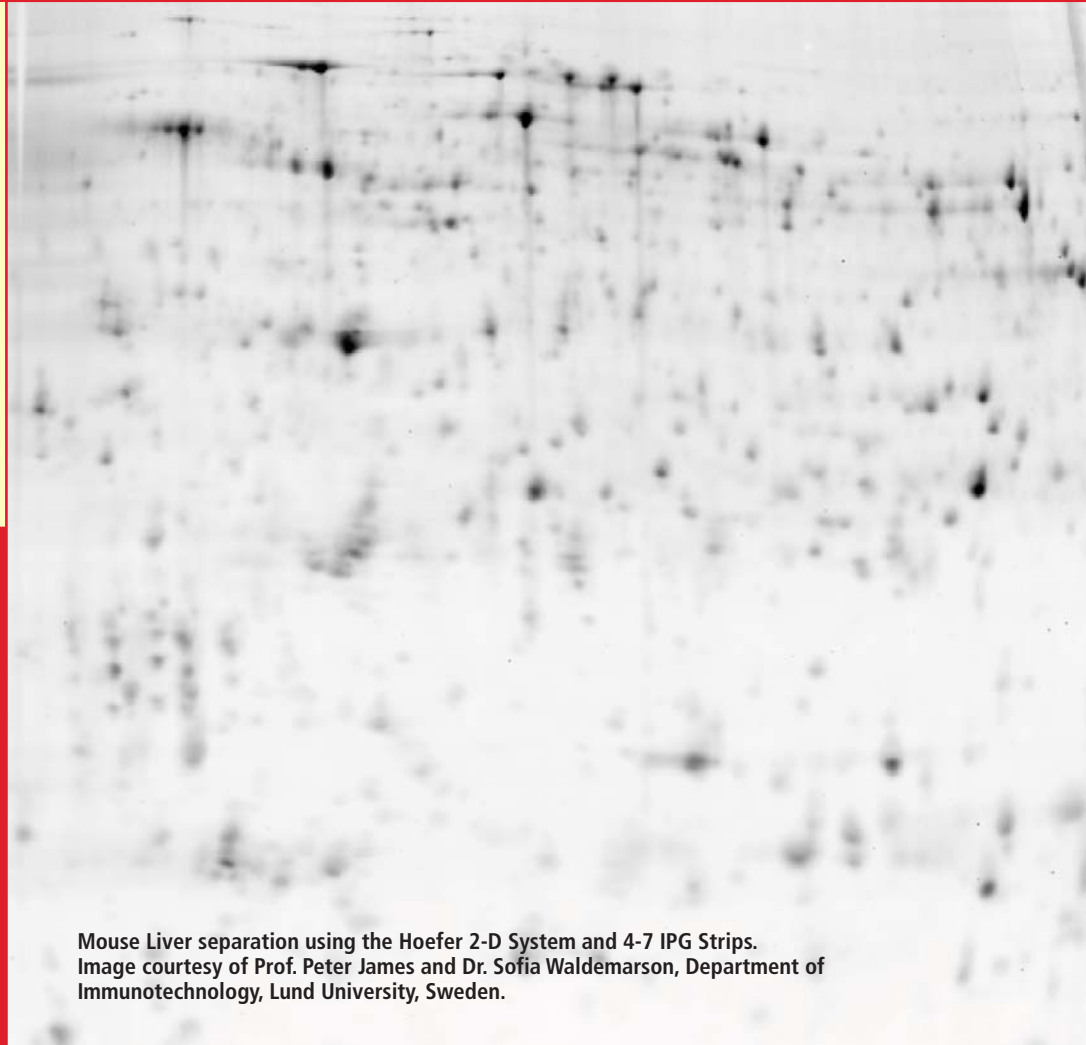
### IEF100 Features -- Benefits

- Monitoring of individual strips -- for increased experimental information
- Cup-loading or rehydration-loading -- versatility to accommodate individual sample requirements
- Instrument control through LAN -- remote control and data acquisition possible
- Integrated Power Supply and Peltier Cooling -- minimizes footprint
- Constant Power Mode -- minimizes overheating risks
- Ultra high voltage and current -- reduces focusing time and enhances focusing results
- Focusing Tray clamped to cooling plate -- ensures efficient heat transfer
- Electrodes lock into place on strips -- ensures good contact during run
- Front data ports -- allow recording of instrument performance if required by GLP
- Entire protocol can be seen on screen -- easy to read and edit
- Stores multiple protocols each with multiple steps -- flexible programming for precise results



### IEF100 Technical Specifications

**Voltage:** 12,000 V  
**Current:** 10 mA  
**Resolution:** 1  $\mu$ A  
**Platform Temperature:** 15 - 25°C  
**Sample Cup Capacity:** 240  $\mu$ l  
**Trays:** Running and Rehydration Tray  
**Dimensions:** 38 cm x 19 cm x 27 cm (w x h x d)  
**Weight:** 6 kg  
**Data Connectivity:** Ethernet / RS232  
**Certifications:**  
EN61326:1998, CE, WEEE, ROHS,  
EN61010-1:2001



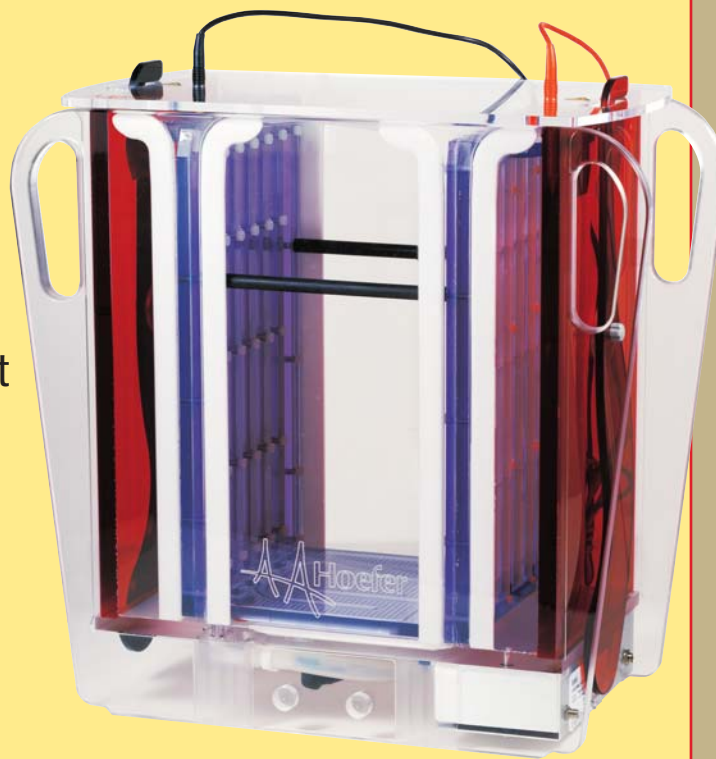
Mouse Liver separation using the Hoefer 2-D System and 4-7 IPG Strips.  
Image courtesy of Prof. Peter James and Dr. Sofia Waldemarson, Department of Immunotechnology, Lund University, Sweden.

**2<sup>ND</sup>**  
Dimension

## Hoefer SE900 Vertical Slab Gel Electrophoresis Unit

For highly  
reproducible  
second-dimension  
separations on up  
to six 28 cm  
SDS-PAGE gels!

The SE900 provides second-dimension capabilities, and when used with the IEF100, comprises a complete 2-D System. You can easily transfer all six IPG strips from the first-dimension to the 6 second-dimension gels which can be run simultaneously. If desired, the unit will accommodate plates of similar size made by other manufacturers.



## SE900 Features -- Benefits

- Utilizes minimal parts -- easy to use and reliable
- External cooling and internal buffer circulation -- ensures an even, constant and uniform temperature for reproducible results
- Up to six 28 cm plates can be run at one time -- perfect for high throughput applications
- Glass plate sandwiches are hinged cassettes -- allows for rapid and easy assembly before use
- Built-in draining port -- avoids lifting of a heavy buffer-filled tank
- Assembly of the tank is easy -- no clamps needed
- Innovative design enables re-use of tank buffer -- decreased buffer consumption for reduced cost of ownership
- No upper buffer chamber -- no gasket issues, and no upper buffer leakage



## SE900 Technical Specifications

**Gel Plate Size:** 28 cm x 21 cm (w x h)  
**Gel Size:** 25 cm x 20 cm (w x h)  
**Maximum Watt:** 100 W  
**Maximum Volt:** 600 V  
**Maximum Ampere:** 1000 mA  
**Maximum Temperature:** 45 °C  
**Operating Conditions:** Humidity up to 80%  
**Altitude:** up to 2000 m  
**Dimensions:** 43 cm x 43 cm x 20 cm (w x h x d)  
**SE900 Rating:** 100 - 240 V, 50 - 60Hz, 2A  
**Buffer Pump:** 50,000 hours pump life  
**Weight:** 13.6 kg  
**Certifications:** CE, EN61010-1:2001

The E2D Elite System comes with a gel multicaster. Gels can be cast in the multicaster to produce identical gels to allow for highly reproducible production of lab-cast gels.

Corynebacterium Glutamicum cell lysates separated using the Hoefer 2-D System and 4-7 IPG Strips.  
Image courtesy of Prof. Angelika Görg, Technical University of Munich, Germany.

## Ordering 2-D Systems

### COMPLETE 2-D SYSTEMS

E2D ELITE Complete 2-D System (IEF100 + SE900-1.0) including multi-caster  
E2D CLASSIC Complete 2-D System (IEF100 + SE900)

### IEF100

IEF100 Includes one (1) IEF-100 Unit, one (1) sealed bag of 252 wicks, one (1) running tray, one (1) rehydration tray, one (1) cleaning brush, one (1) set of forceps and ten (10) sets of running cups (each set containing 6 sample cups).  
IEF106 Includes two (2) sealed bags of 252 wicks per bag.  
IEF110 Includes one (1) rehydration tray  
IEF108 Includes ten (10) sets of running cups (each set containing 6 sample cups)

### SE900

SE900-1.0 Large format PAGE system, complete. Including six (6) 28 cm x 21cm hinged glass cassette, and one (1) large format gel caster with accessories)  
SE900 Large format PAGE system, separation tank only. Includes tank, lid, gel rack.  
SE9102-1-1.0 Hinged glass cassette, 28 cm x 21 cm, 1 mm thick (qty 1)  
SE915 Large format PAGE multiple gel caster for use with SE9102 cassettes. Includes one (1) acrylic space saver, one filler plug and ten (10) divider sheets  
SE914 Gel plate rack. For holding up to 14 large format gel cassettes

### ACCESSORIES

RCB20-230V50Hz Refrigerated and Heated Circulation Bath - 230V, 50Hz  
RCB20-230V60Hz Refrigerated and Heated Circulation Bath - 230V, 60Hz  
RCB20-115V Refrigerated and Heated Circulation Bath - 115V, 60Hz  
RCB20-100V Refrigerated and Heated Circulation Bath - 100V, 60Hz  
PS300-B Power Supply 10 - 300V

**For pricing information please contact your Hofer representative.**

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### Accessories for the SE900:



**Hofer PS300-B Power Supply** designed for most electrophoresis techniques. Operates in constant current or constant voltage mode. Takes 4 mm safety sheeted plugs. Directly compatible with all Hofer equipment.

**Voltage:** 10 - 300 V in 1V steps  
**Current:** 4 - 500 mA  
**Power:** 90 W max  
**Timer:** 0 - 999 minutes  
**Output Modes:** constant voltage or current  
**Dimensions:** 33.5 x 12.5 x 28 cm  
**Weight:** 2.4 kg



**Hofer RCB20** Refrigerated and Heated Circulation Bath. Ensures efficient temperature control of the 2nd dimension run.

**Control Range:** -20 to +100°C  
**Accuracy:** +/- 0.1°C  
**Cooling Capacity:** 200 W at 20°C  
**Heating Capacity:** 1000 W  
**Circulation Rate:** 15 liter per minute  
**Weight:** 21.9 kg

For inquiries please contact your local Hofer representative below:

