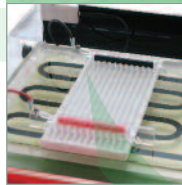
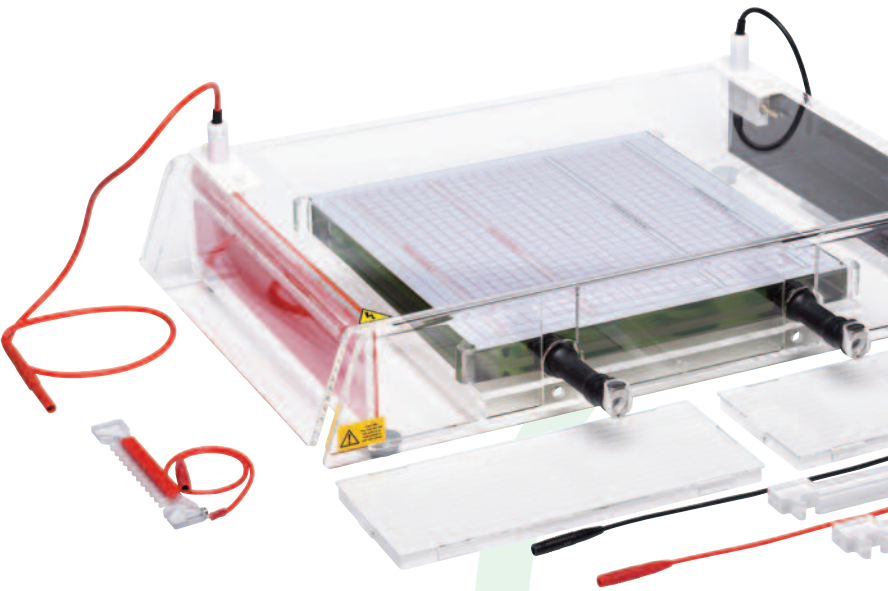




Iso Electric Focusing

Equipped with rehydration and focusing trays, this system has been optimised to perform first-dimension isoelectric focusing (IEF) with IPG (immobilised pH gradient) strips and IEF gels quickly, easily and reproducibly



WWW.CLEAVERSCIENTIFIC.COM

- For IPG strips and IEF gels
- Large cooling platform area
- 'Pick-and-Place' adjustable electrodes
- Focusing tray for a maximum twelve IPG strips
- Rehydration tray also included

Equipped with rehydration and focusing trays, the Cleaver Scientific IEF system has been optimised to perform first-dimension isoelectric focusing (IEF) with IPG (immobilised pH gradient) strips quickly, easily and reproducibly. It can also be used with precast IEF Gels.

An ideal entry-level system for both experienced and occasional IEF users, the unit is versatile enough to meet the needs of laboratories with increased throughput requirements as well as first time users.

HIGH CAPACITY

Its high-capacity focusing tray accommodates up to twelve IPG strips. Adjustable 'pick-and-place' electrodes clip conveniently anywhere within the focusing tray to resolve IPG strips 7-24cm in length and are colour-coded to prevent polarity reversal. The Electrode frame clips directly on to the cooling plate and includes adjustable electrodes to run horizontal precast IEF and PAGE gels.

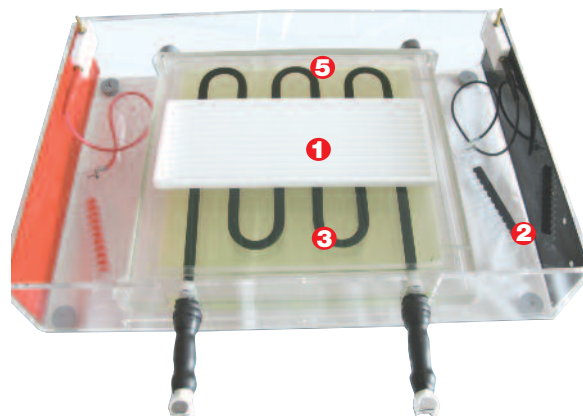
A cooling plate, manufactured from a special grade ceramic in a large 26x26cm surface area, facilitates effective heat dissipation and control, particularly during high voltage IEF techniques. An optional, but recommended, recirculating chiller connects quickly and easily to the cooling plate to maintain optimal operating temperatures for IPG strips and precast gels.

REHYDRATION

The Rehydration tray allows convenient transfer of IPG strips to the focusing tray without time-consuming removal of residual rehydration buffer and also enables the focusing tray to remain permanently in use for IEF to maximise throughput and provides useful storage at -20°C for focused strips before second-dimension runs.

For those requiring a power supply, the Consort EV2320, 3000V, 150mA, 150W enables desired Volt-hours for focusing to be attained faster at maximum voltage.

Isoelectric Focusing



IEF COMPONENTS

1. Focusing Tray
2. Adjustable 'pick-and-place' electrodes
3. Ceramic cooling plate with snap-lock connectors
4. Rehydration tray (not shown)
5. Electrode frame for horizontal precast gels
6. Shrouded 2mm high voltage cables (not shown)

Typical Running Conditions 7cm IPG Strip

IEF STEP	1	2	3	4	5	6
VOLTAGE (V)	150	300	600	1500	3000	300
TIME (h)	0.5	0.5	0.5	0.5	2.5	<20
VOLT-HOURS	75	150	300	750	7500	-

18cm IPG Strip

IEF STEP	1	2	3	4	5
VOLTAGE (V)	300	600	1500	3000	300
TIME (h)	0.5	1	1	12	<20
VOLT-HOURS	150	600	1500	36000	-

Tray Specifications

Tray Specifications	IPG Strip Length				
	7cm	11cm	18cm	24cm	
FOCUSING TRAY					
ELECTRODE DISTANCE		6.5cm	10.2cm	17.1cm	22.7cm
MAXIMUM STRIP LENGTH ACCOMMODATED		25.3cm	25.3cm	25.3cm	25.3cm
IPG STRIP LENGTH		7cm	11cm	18cm	24cm
REHYDRATION TRAY					
MAXIMUM STRIP LENGTH ACCOMMODATED		24cm	24cm	24cm	24cm
RECOMMENDED VOLUME FOR STRIP REHYDRATION		3.5ML	6ML	8.0ML	12.0ML

ORDERING INFORMATION

Cat. No.	Description		
CSL-IEF	Flatbed IEF system for IPG strips and gels, with focusing and rehydration trays		
CSL-CHILLER	Chiller system, -20 to 100°C, including insulated tubing & clips	CSL-IEFFRME	Replacement electrode frame
CSL-IEF-KIT	1-D Combination Package, includes RRIEF, RRCHILL and EV232	CSL-RHYDTRY	Rehydration Tray
CSL-IEFPOS	Replacement positive electrode	CSL-FOCUSTRAY	Focusing tray with adjustable electrodes
CSL-IEFNEG	Replacement negative electrode	EV2320	Consort 3000V, 150mA, 150W power supply
CSL-IEFPLT	Replacement Glass platform		

CLEAVER SCIENTIFIC LTD

Unit 41, Somers Road Industrial Estate,
Rugby, CV22 7DH
United Kingdom

T_ +44 (0)1788 565300
E_ INFO@CLEAVERSCIENTIFIC.COM
W_ WWW.CLEAVERSCIENTIFIC.COM