

isoelectric focusing

- 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

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	-

IPG Strip Length Tray Specifications

	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 7cm STRIP LENGTH	N/A*	18cm	24cm	
REHYDRATION TRAY				
MAXIMUM STRIP LENGTH ACCOMMODATED	24cm	24cm	24cm	24cm
RECOMMENDED VOLUME FOR STRIP REHYDRATION	3.5ML	6ML	8.0ML	12.0ML

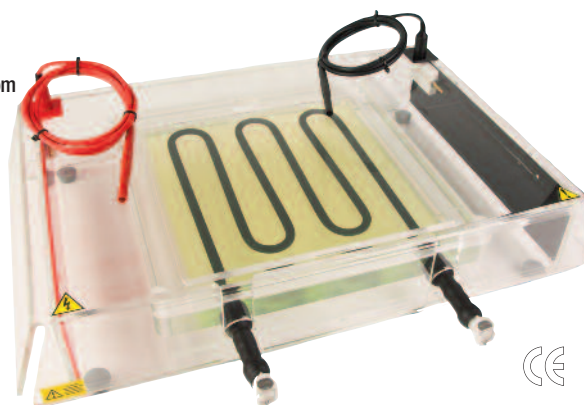
Technical Specifications

MAX. COMMERCIAL STRIP LENGTH ACCOMMODATED	24cm
MAX. GEL DIMENSIONS ON COOLING PLATE	26 x 26cm
UNIT DIMENSIONS (WxDxH)	55 x 35 x 10cm
FOCUSING TRAY STRIP CAPACITY	12x 18 AND 24cm STRIPS; 24x 7 AND 11cm STRIPS
OPERATING TEMPERATURE	4 - 25°C
REGULATORY CERTIFICATION	CE, EN61010

Typical Applications

1st dimension of 2-D electrophoresis separation of proteins according to their PI

Now equipped with rehydration and focusing trays, the redesigned Biocom IEF has been optimised to perform first-dimension isoelectric focusing (IEF) with IPG (immobilised pH gradient) strips quickly, easily and reproducibly. An ideal entry-level system for both inexperienced and occasional IEF users, the unit is also versatile enough to meet the needs of laboratories with increased throughput requirements.



Its high-capacity focusing tray accommodates up to twelve IPG strips. An Adjustable 'pick-and-place' electrodes clip conveniently anywhere within the focusing tray to resolve IPG strips 7-24cm in length; 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.

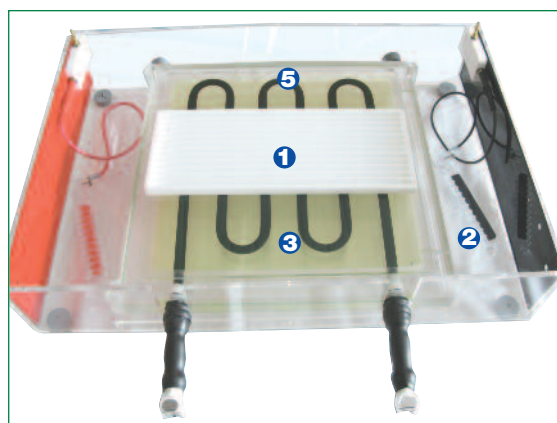
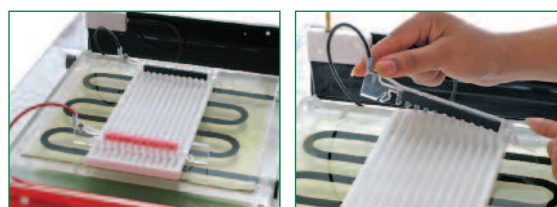
A cooling plate, manufactured from a special grade ceramic in a large 26 x 26cm surface area, facilitates effective heat dissipation and homogenous thermal control, particularly during high voltage IEF techniques. An optional, but recommended, recirculating chiller connects quickly and easily to the cooling plate via snap-lock connectors to maintain

optimal operating temperatures for IPG strips (20°C) and precast gels (4°C).

The Rehydration tray allows convenient transfer of IPG strips to the focusing tray without time-consuming removal of residual rehydration buffer; also enables 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.

The Consort EV233 power supply, (3000V, 300mA, 300W) enables desired Volt-hours for focusing to be attained faster at maximum voltage. Its nine different program settings with nine different parameters and voltage ramping make the EV233 ideal for multi-step IEF techniques. Data-logging capacity for up to 3600 output values, while run data may be collected via RS232 connection and free downloadable data acquisition software.

High specification Chiller for use with flatbed IEF unit, see page 18



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)

ORDERING INFORMATION

BCIEF	Flatbed IEF system for IPG strips and gels, with focusing and rehydration trays		
BCCHILL	Chiller system, -20 to 100°C, including insulated tubing & clips	IEFFRME	Replacement electrode frame
IEF-KIT	1-D Combination Package, includes IEF, CHILLER and EV232	RHYDTRY	Rehydration Tray
IEFPOS	Replacement positive electrode	FOCUSTRAY	Focusing tray with adjustable electrodes
IEFNEG	Replacement negative electrode	FTELECPoS	Focusing Tray Adjustable Electrode Positive
IEFPLT	Replacement Glass platform	EV233	Consort 3000V, 300mA, 300W power supply