

# IB44000/IB45000

## SEMI-DRY BLOTTERS

VERTICAL  
ELECTROPHORESIS

IBI's Semi-Dry Blotters are electrophoretic devices designed for fast, efficient, and economic transfer of protein, RNA, or DNA from polyacrylamide or agarose gels to a solid membrane support which is subsequently visualized by staining or other immunological methods. The IBI units are designed to produce a very uniform system for the transfer of proteins and nucleic acids. The very low buffer volume and minimal current use produces very little heat, thus preventing band distortion. Transfer can occur in less than an hour, depending on the molecular weight of the molecules to be transferred. Either single gels or multiple gel stacks can be transferred with the units.

### SPECIFICATIONS

	IB44000	IB45000
Working Surface Dimensions	16x16cm	24x30cm
Weight	3.5lbs	9.5lbs
Cathode Electrode Wire	32in.	42in.
Anode Electrode Wire	30in.	42in.
Recommended Max. Cap.	2-3 Trans-Units	6 Trans-Units

### FEATURES AND BENEFITS

- Rugged construction for long work life in your lab
- Large active transfer area for greater lab productivity
- Low buffer use for reduced operation cost
- Low heat production results in less band distortion
- Multiple gel system reduces lab work time
- Fast transfer times increase lab productivity
- Standard power supplies can be used to minimize start-up costs

Current Density	Trans-Units	Time Limit
0.8mA/cm <sup>2</sup>	1 to 6	1 to 2 hours
2.5mA/cm <sup>2</sup>	1 to 6	30-45 minutes
1.0mA/cm <sup>2</sup>	1 to 6	10-30 minutes

Power conditions and transfer times will vary with DNA/RNA type and size, thickness of the gel, and size of the electroblot sandwich.

After the transfer is complete, the filter papers and gels are removed from the unit and the membrane is ready for post-transfer processing.

#### Did You Know?

IBI's Semi-Dry Blotters are recommended for the transfer of proteins less than 100kDa.

### ORDERING INFORMATION

CATALOG#	DESCRIPTION
IB44000	SEMI-DRY BLOTTER (16x16cm)
IB45000	SEMI-DRY BLOTTER (24x30cm)

\*Comes complete with cathode plate cover (black), anode plate base (red), power cords, and operation manual.



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The IBI Semi-Dry Blotter consists of a specially designed and tested cathode plate cover and a graphite anode plate. A trans-unit stack is formed by the gel and the membrane being in contact, and sandwiched between filter papers soaked in buffer. An electric current is applied perpendicular to the gel and buffer saturated filter papers. The bands from the charged molecules of the gels migrate and bind to the membrane, and this is dependent upon molecular size and charge.

Several stacks of trans-units can be run simultaneously. IBI model IB44000 allows up to six trans-units to be run at the same time. IBI model IB45000 is designed for multiple gel transfers, 2-D transfers and larger gels up to 24x30cm.

The graphite plates serve as the electrodes, which dissipate potential heat build-up during the electrophoretic transfer. Band transfer times vary due to gel type, membrane type, and amount of current applied.