

# ENDURO™ VE20 VERTICAL GEL SYSTEM



The ENDURO™ VE20 is Labnet's new large format vertical gel electrophoresis system. Designed to perform a variety of separations, including first and second-dimension SDS-PAGE, native, preparative, gradient, high-resolution nucleic acid electrophoresis and electroblotting, the VE20 is one of the most versatile large format vertical systems available.

The VE20 distinguishes itself in its flexibility of applications, ease of gel casting and set-up requiring only 4 screws to secure 4 (16 x 17.5 cm) gels. The VE20 vertical screw-clamp configuration distributes pressure evenly along the height of the gel rather than in the center to eliminate plate bowing and gel compression. The new configuration still maintains a leak-proof seal during casting; while the ergonomic wave-like design of the PAGE insert aids both handling and set up.

Whatever your large format gel requirements are, the VE20 can be made to meet them. Whether it is running 2 or 4 gels, electroblotting or IEF using IPG strips, all of these techniques may be performed using the same base unit while retaining the benefits provided by large format electrophoresis, such as extended separation distances, greater sample throughput and superior resolution.

## SPECIFICATIONS

### Faster Set Up

- Fewer Screws – novel vertical screw-clamp technology reduces the number of screws required for set up compared to traditional large-format systems, dramatically reducing assembly time
- No Top Tank Assembly- A built-in inner buffer chamber within the PAGE insert allows set up to be completed in one step

Plate Dimensions: (W x H x D)	20 x 20 x 0.4 cm
Standard Spacer Dimensions: (W x H)	2 x 20 cm
IPG Spacer Dimensions: (W x H)	0.6 x 20 cm
Unit Dimensions: (W x H x D)	30 x 27 x 18 cm
Unit Weight	2.5 kg
Number of Gels	1-4
Total Volume inner buffer chamber	640 mL
Total buffer Volume for 2 gels	5.3 L
Total buffer Volume for 4 gels	4.8 L
Std run time without Cooling	4-5 hours
Std run time with Cooling	3-4 hours

## ORDERING INFORMATION

Catalog No.	Description
E2020-CU	ENDURO VE20 Dual Casting System
E2120-EC	ENDURO VE20 External Casting Stand
E2120-CAST	ENDURO VE20 Casting Base
E2120-PI	ENDURO VE20 Page insert
E2120-CC	ENDURO VE20 Detachable Cooling Coil
E2120-RM	ENDURO VE20 Replacement Rubber mats for 20 x 20 cm caster.
E2120-MCB	ENDURO VE20 Maxi Cooling Block
E2120-CC	ENDURO VE20 Detachable Cooling Coil
E2120-LD	VE20 lid (No cables)

# ENDURO™ VE20 VERTICAL GEL SYSTEM

## ACCESSORY COMBS



Catalog No.	Description	Comb Thickness	Multichannel Compatible
E2120-C-.75-1-1	Comb 1 Prep, 1 Marker,	0.75 mm	No
E2120-C-.75-5	Comb 5 sample,	0.75 mm	No
E2120-C-.75-10	Comb 10 sample	0.75 mm	No
E2120-C-.75-18MC	Comb 18 sample	0.75 mm	Yes
E2120-C-.75-24	Comb 24 sample	0.75 mm	No
E2120-C-.75-30	Comb 30 sample	0.75 mm	No
E2120-C-.75-36MC	Comb 36 sample	0.75 mm	Yes
E2120-C-.75-48	Comb 48 sample	0.75 mm	No
E2120-C-1-1-1	Comb 1 Prep, 1 Marker	1 mm	No
E2120-C-1-5	Comb 5 sample	1 mm	No
E2120-C-1-10	Comb 10 sample	1 mm	No
E2120-C-1-18MC	Comb 18 sample	1 mm	Yes
E2120-C-1-24	Comb 24 sample	1 mm	No
E2120-C-1-30	Comb 30 sample	1 mm	No
E2120-C-1-36MC	Comb 36 sample	1 mm	Yes
E2120-C-1-48	Comb 48 sample	1 mm	No
E2120-C-1.5-1-1	Comb 1 Prep, 1 Marker	1.5 mm	No
E2120-C-1.5-5	Comb 5 sample	1.5 mm	No
E2120-C-1.5-10	Comb 10 sample	1.5 mm	No
E2120-C-1.5-18MC	Comb 18 sample	1.5 mm	Yes
E2120-C-1.5-24	Comb 24 sample	1.5 mm	No
E2120-C-1.5-30	Comb 30 sample	1.5 mm	No
E2120-C-1.5-36MC	Comb 36 sample	1.5 mm	Yes
E2120-C-1.5-48	Comb 48 sample	1.5 mm	No
E2120-C-2-1-1	Comb 1 Prep, 1 Marker,	2 mm	No
E2120-C-2-5	Comb 5 sample,	2 mm	No
E2120-C-2-10	Comb 10 sample	2 mm	No
E2120-C-2-18MC	Comb 18 sample	2 mm	Yes
E2120-C-2-24	Comb 24 sample	2 mm	No
E2120-C-2-30	Comb 30 sample	2 mm	No
E2120-C-2-36MC	Comb 36 sample	2 mm	Yes
E2120-C-2-48	Comb 48 sample	2 mm	No

### Component parts

1. Lid
2. Tank
3. Combs
4. Plain glass plates with bonded spacers
5. PAGE insert
6. Caster
7. Gel release tool
8. Freezer pack
9. Notched glass plates

## ACCESSORY PLATES

Catalog No.	Description
E2120-NG-.75-BS	20 x 20 cm Notched Glass Plates with 0.75 mm Bonded Spacers (Pack of 2)
E2120-NG-1-BS	20 x 20 cm Notched Glass Plates with 1mm Bonded Spacers ( Pack of 2)
E2120-NG-2	20 x 20 cm Notched Glass Plates 2 mm thick ( Pack of 2)
E2120-PG-.75-BS	20 x 20 cm Plain Glass Plates with 0.75 mm Bonded Spacers (Pack of 2)
E2120-PG-1.5-BS	20 x 20 cm Plain Glass Plates with 1.5 mm Bonded Spacers (Pack of 2)
E2120-PG-1-BS	20 x 20 cm Plain Glass Plates with 1mm Bonded Spacers ( Pack of 2)
E2120-PG-2	20 x 20 cm Plain Glass Plates 2 mm thick ( Pack of 2)
E2120-PG-2-BS	20 x 20 cm Plain Glass Plates with 2 mm Bonded Spacers (Pack of 2)
E2120-DP	20 x 20 cm, Dummy Plate

## ENDURO™ VE10 BLOTTER SYSTEM

This ENDURO VE10 blotter has a 4 mini gel (10 x 10 cm) capacity and can be purchased either as a stand-alone tank blotter or part of an integrated mini-gel/blotting system utilizing one shared tank (see page 6).

This electroblotting system includes tank, blotting inserts and 4 cassettes with fiber pads.



### ORDERING INFORMATION

Catalog No.	Description
E2010-BT	ENDURO Electroblotting System, includes tank, blotting insert & 4 cassettes
E2010-BM	Mini Vertical Electroblotting Module for use with mini vertical gel system, includes 4 cassettes and 8 fiber pads
E2010-PM*	Mini Vertical PAGE module for use with mini vertical gel system.
E2110-B-MC	Blotting Cassette
E2110-B-FP	Fiber Blotting Pads, pack of 8 pads
E2110-CP	Mini Cooling Pack for use with mini vertical gel system

\*Glass plates, combs & caster not included.

## ENDURO™ VE20 BLOTTER SYSTEM

The ENDURO VE20 blotter has a large capacity. It can hold up to 16 mini-gels or 4 large format gels. It comes with tank, lid, platinum wire electrodes, 4 cassettes, 18 fiber pads and cooling coil. The VE20 electroblotting system provides all necessary components for performing transfers from vertical slab gels. It has interchangeable modular inserts that can combine with VE20 vertical PAGE to use the same universal tank and lid. Complete flexibility is provided as the VE20 can be run with most power settings required. It can perform overnight transfers at voltages as low as 35V and rapid, high-intensity transfers up to 200V in 1-2 hours. The VE20 comes standard with platinum wire electrodes 8 cm apart for increased capacity. A high intensity insert with plate electrodes 4 cm apart for rapid transfers is also available, E2020-HITB.

The detachable cooling coil, which connects to the laboratory water supply or a recirculating chiller, prevents buffer depletion to allow overnight transfers and fast high-intensity blots. It also maintains the low temperatures important for protein stability during native transfers. The open design and rigid cassettes maximize current transfer and eliminate 'shadow band' formation. Color-coded cassettes prevent polarity reversal ensuring proper blotting. This is a well thought out high capacity tank blotter and a great value



### ORDERING INFORMATION

Catalog No.	Description
E2020-TB	ENDURO VE20 Blotting System, system Including tank and lid, 4 cassettes, 18 fibre pads, cooling coil
E2020-TBI	ENDURO VE20 Maxi Platinum Wire Blotting Inset, 4x compression cassettes and 18x fibre pads
E2120-TBC	ENDURO VE20 Blot Maxi Cassette
E2120-TBFP	Fibre pads - Pack of 6
E2020-HITB	ENDURO VE20 HS Blotting System, High Intensity System including tank and lid, 1 cassettes, 6 fiber pads, cooling coil
E2120-HITBI	ENDURO VE20 HS Blotting System High intensity insert - includes 1 cassette and 6 fibre pads
E2120-CC	ENDURO VE20 Detachable Cooling Coil
E2120-LD	VE20 lid (No cables)
E2120-T	VE20 Tank