

# Thermo Scientific Pierce G2 Fast Blotter

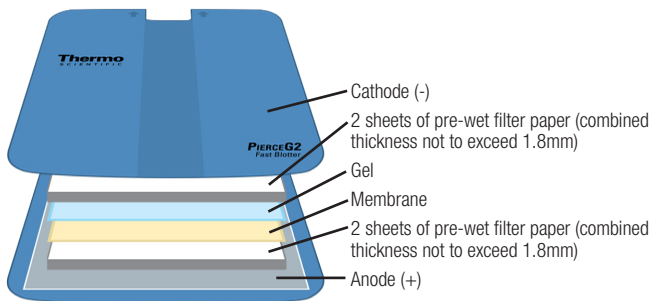
## Quick Start Guide

**IMPORTANT** Review and implement guidelines for proper set-up before installation. Gels simultaneously transferred must have the same formulation.

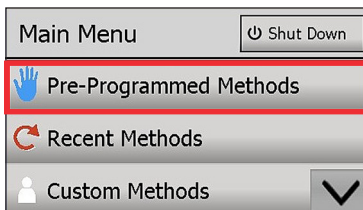
- 1 Using the appropriate power cord supplied with the blotter, connect the blotter control unit to an outlet.
- 2 Switch on the Power Button located on the control unit's rear panel.
- 3 For each gel, use four sheets of ~0.83mm thick Western blotting filter paper and one sheet of nitrocellulose or PVDF membrane cut to the same size.
- 4 Equilibrate filter paper and membrane in Thermo Scientific™ Pierce™ 1-Step Transfer Buffer for at least 5 minutes. Use sufficient buffer to cover filter paper and membrane [~50mL per mini-sized (7cm x 8.4cm) sandwich and ~100mL per midi-sized (8cm x 13.5cm) sandwich].

**Note:** PVDF membrane must be wetted with methanol or ethanol before equilibration in Pierce 1-Step Transfer Buffer.

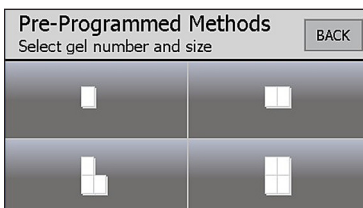
- 5 After electrophoresis, remove gel(s) from cassette(s) and briefly place into tray containing deionized water or transfer buffer. This will ensure even wetting, facilitate proper gel placement and improve gel contact with the membrane.
- 6 Assemble and center sandwich(es) on bottom of cassette (anode) to ensure even pressure (10mm spaces between sandwiches). Use a blot roller to remove any trapped air bubbles.



- 7 Lock top of the cassette (cathode) into place and slide cassette into the control unit.
- 8 Select **Pre-Programmed Methods** in the Main Menu.

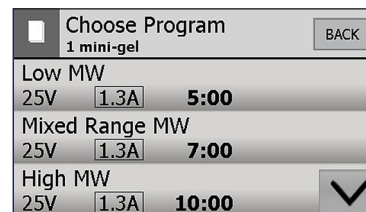


- 9 Select the number of gels and gel size (mini or midi) for transfer.
  - a. 1 mini-gel
  - b. 2 mini-gels or 1 midi-gel
  - c. 3 mini-gels
  - d. 4 mini-gels or 2 midi-gels

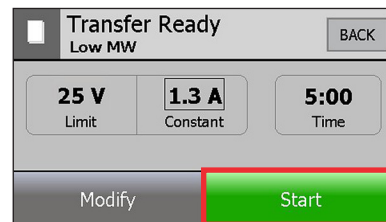


- 10 Select the appropriate program to run:
  - a. **Low MW (< 25kDa)**
  - b. **Mixed Range MW (25-150kDa)**
  - c. **High MW (>150kDa)**
  - d. **Std Semi-Dry**
  - e. **1.5mm thick gels or if unknown**

**Note:** For fast-blotting programs (a, b, c and e), use Pierce 1-Step Transfer Buffer. Transfer time may be increased to 12 minutes for extremely high molecular-weight proteins. Do not use the Std Semi-Dry transfer program (d) with Pierce 1-Step Transfer Buffer.



- 11 Select the **Start** button to begin transfer.



- 12 Pierce 1-Step Transfer Buffer is a highly concentrated salt solution. Thoroughly wash the anode and cathode after each use and rinse the unassembled cassette under hot water while removing any sticky salt residue with a gloved hand. Rinse with deionized water and stand parts in a rack to dry. For more thorough cleaning, immerse the cassette top (cathode) and bottom (anode) in hot water and use a gloved hand or clean sponge to remove salt residue. Rinse with deionized water and stand parts in a rack to dry.

**NOTE: Failure to keep cassette top and bottom clean can result in moving parts sticking and lead to poor transfer efficiency.**



After running at high current, the anode and cathode plates can become hot. Use caution when separating the gels and stacks from the plates.

## Related Thermo Scientific™ Products

84731	Pierce 1-Step Transfer Buffer, 1L
84742	Pierce 1-Step Transfer Buffer, 200mL
84783	Western Blotting Filter Paper, 7cm x 8.4cm, 0.83mm thick, 100 mini-sized sheets
84784	Western Blotting Filter Paper, 8cm x 13.5cm, 0.83mm thick, 100 midi-sized sheets
88600	Western Blotting Filter Paper, 8cm x 10.5cm, 0.83mm thick, 100 mini-sized sheets
88018	Nitrocellulose Membrane, 0.45µm, 30cm x 3.5m roll
88518	PVDF Membrane, 0.45µm, 26.5cm x 3.75m roll



**WARNING** After running at high current, the anode and cathode plates can become hot. Use caution when separating the gels and stacks from the plates. When continuously processing multiple samples at ~5A for a maximum of 2 hours, allow the cassette to cool for 30 minutes or use multiple cassettes to avoid excessive cassette heating.



**WARNING** Blotter use outside of the workflows described in this manual may put the operator at risk of dangerous exposure to electrical shock. Do not use this instrument for any purposes or in any configurations not described in this manual.



**WARNING** The blotter base unit can contain dangerous electricity and is not designed to be opened by the user. Disconnect all power to the base unit before maintenance by a qualified technician.



**WARNING** Do not overfill the cassette with liquid. Excess liquid can overflow into the base unit and possibly cause electric shock. Follow the appropriate instructions for reagent amounts and empty any remaining liquid in the cassette upon run completion.

**NOTE** A grounded circuit capable of delivering the appropriate current and voltage is required for installation. Electrical requirements can be located on the rear panel of the blotter base. The blotter electrical system will adjust to the proper voltage for the respective country. Connect the blotter power cord to the rear left side panel of the device and plug into a grounded power outlet.

Blotter Electrical Parameter	Rating
Supply Voltage (VAC)	100-240
Frequency (Hz)	50/60
Maximum Power Rating (W)	168
Fuse (Power Center)	T3AL, 250V, 3A



### ENVIRONMENTALLY FRIENDLY DISPOSAL

According to EU directive 2002/96/EC on electric and electronic equipment and its implementation into national law, all electric equipments must be separately collected and environmentally friendly recycled. Alternative disposal: If the owner of the electric equipments does not return it to the manufacturer, he is responsible for proper disposal at a designated collection point that prepares the device for recycling according to national recycling laws and regulations. This does not include accessories and tools without electric or electronic components.

For more details, refer to the full blotter user manual available at [www.thermoscientific/pierce](http://www.thermoscientific/pierce)



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