

PERMATRAN-C[®] 4/41 AND 4/41T

Modular Carbon Dioxide Transmission Rate Test System for Barrier Films, Packages, and Bottles.



CO₂ transmission for bottles and barrier films



High Transmission CO₂ for Fresh-Cut Produce Industry

- Ideal for bottle testing with excellent correlation to Zahm-Nagel shelf-life studies
- Much faster than existing methods
- 1 to 10,000 cc/(m² • day)
0.005 to 50 cc/pkg • day

- Test high transmission films and packages used in the fresh produce industry
- Much faster than existing methods
- 4,000 to 155,000 cc/(m² • day)
258 to 10,000 cc/(100 in² • day)

- Computer controlled
- Real-world temperatures
- Two test cells per module, expandable to 20 cells
- Optional Package Environmental Chamber (PEC) for controlled temperature package testing
- Temperature ranges
Films: 5C to 50C
Packages: 10C to 40C

Technical Specifications

PERMATRAN-C 4/41 Barrier Quality Samples

	cc/(m ² - day)*	cc/(100 in ² - day)	cc/(pkg - day)
Standard	1 to 10,000	0.645 to 6450	.005 to 50
Masked	10 to 500,000	0.645 to 6450	N/A

PERMATRAN-C 4/41 T High Transmitter Samples

	cc/(m ² - day)*	cc/(100 in ² - day)	cc/(pkg - day)
Standard	4000 to 155,000	258 to 10,000	20 to 775
Masked	15,500 to 800,000	1,000 to 50,000	N/A

* for barrier materials only (non-porous)

Repeatability:

±5% @ [333 cc/(m² - day) for 4/41], [18,000 cc/(m² - day) for 4/41T]

Temperature Range:

Films – (Standard) 5C above ambient to 50C
 Packages – (Standard) room ambient
 (Optional) 10C to 40C

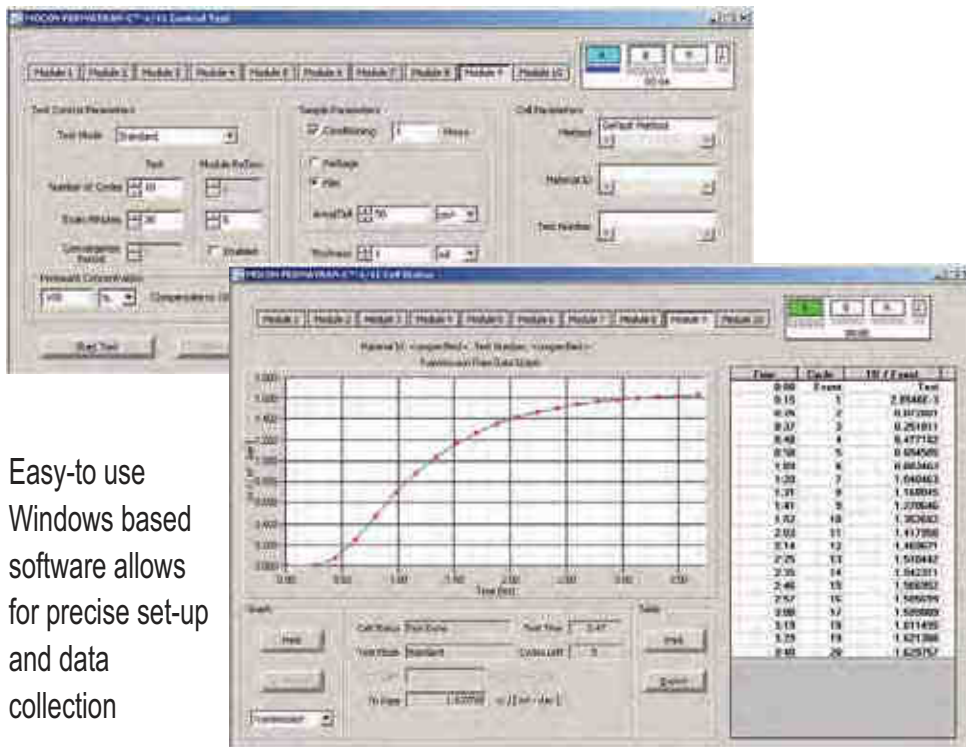
Test Sample Size:

Films 4.25" x 4.25" (10.8 cm x 10.8 cm)
 Packages up to 3 liters practical

Electrical Requirements:

Voltage – 120, 100, 220, or 240 VAC±10%
 Frequency – 50 or 60 Hz;
 Power consumption – 500 VA maximum

Package Environmental Chamber (PEC)



Package testing under select environments.

Easy-to use Windows based software allows for precise set-up and data collection



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