

Alpha/Beta Counting Automatic Systems

WPC-1150-GFW-3 Automatic Sample Changer

- 8.9 cm (3.5 in.) Diameter Gas Flow Detector
- 10.2 cm (4 in.) Standard Planchet Diameter
- 50 Sample Capacity
- Low Background
- Touch Screen Interface
- Gas-Pro Failsafe Counting

The WPC-1150-GFW-3 12.7 cm (5 in.) low background windowless automatic is a gas-flow proportional counter equipped with a 8.9 cm (3.5 in.) detector configuration. The WPC-1150-GFW-3 incorporates a built-in color touch screen interface and is targeted toward health physics and environmental applications. The WPC-1150-GFW-3 is ideal for large diameter air filters used in high-volume air samplers.



Specifications

TYPE

Sample Changer: Automatic
Number of Detectors: 1 + guard
Counter: Ultra-Low Background
Sample Size: 10.2 cm (4 in.)
Interface: Touch Screen

DETECTOR

Size: 8.9 cm (3.5 in.) Diameter
Type: Pancake-style gas flow proportional
Window: Aluminized, 80 $\mu\text{g}/\text{cm}^2$
Guard Detector: 1 large gas flow proportional
Counting Gas: P-10, 60 cc/min @ 10 psi
Shielding: 10.2 cm (4 in.) thick

SAMPLE

Size: 10.2 cm (4 in.), custom sizes available
Capacity: 50
Reader: Barcode
Range: 1-999

PERFORMANCE

Alpha Background: 0.3 cpm
Beta Background: 1.5 cpm
Th²³⁰ Efficiency: 27%
Sr⁹⁰/Y⁹⁰ Efficiency: 63%
Tc⁹⁹ Efficiency: 41%
Alpha-Beta Crosstalk: < 0.1%
Beta-Alpha Crosstalk: < 0.1%
Count Modes: Alpha only, Beta only, Alpha/Beta simultaneously

PHYSICAL

Dimensions: 63.5 x 91.4 cm (25 x 36 in.) (W x D)
Weight: 816 kg (1800 lb)

Compatible Application Software Packages

- Vista FC Health Physics Applications Software
- DUO Software (used when operating in the Color Touch Screen Interface Mode)