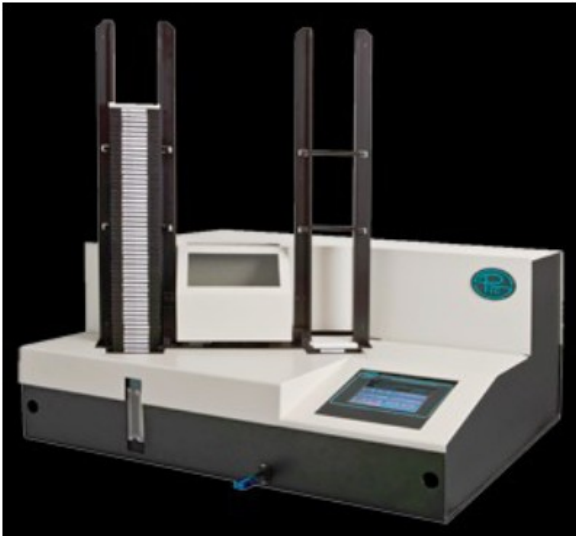


# WPC-1050

## Alpha/Beta Counting Instrument



The WPC-1050 is a general purpose ultra-low background counting system, which is widely used for both health physics and radiochemistry applications. The WPC-1050 is an improved design of the previous WPC-9550 that incorporates the same dependable mechanical platform with improvements, which include a built-in color touch screen interface; ability to export data to a USB flash drive; ability to program routines on a PC running the included DUO Software then transfer the routines to the instrument via a USB flash drive; optional gas flow conservation mode option available, etc.

### FEATURES:

- Automatic Sample Changer
- 5.1 cm (2 in.) Standard Planchet Diameter
- Ultra-Low Background
- Easy Maintenance
- Easy Window Replacement
- GasPro Failsafe Counting
- Radon Compensation for Air Filters

### SPECIFICATIONS:

#### TYPE

Sample Changer - Automatic  
Number of Detectors - 1 + guard  
Counter - Ultra-Low Background  
Sample Size - 5.1 cm (2 in.)  
Interface - Touch Screen

#### DETECTOR

Size - 5.7 cm (2.3 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  
Gas-Pro Protection - Yes  
Shielding - 10 cm.2 (4 in.) thick

#### SAMPLE

Size - 5.1 cm (2 in.) diameter Planchets  
Capacity - 50 (100 Optional)  
Depth - 1/8, 1/4, 5/16 inch  
Reader - Bar Code  
Range - 1-999  
Data Export - USB Flash Drive, RS-232

#### INTERFACE

Type - Touch Screen  
Compatible Software - Vista FC, DUO Software

#### PERFORMANCE

Alpha Background - 0.05 cpm  
Beta Background - 0.7 cpm  
Po210 Efficiency - 40%  
Am241 Efficiency - 40%  
Th230 Efficiency - 40%  
Sr90/Y90 Efficiency - 55%  
Tc99 Efficiency - 35%  
Cs137 Efficiency - 40%  
Alpha-Beta Crosstalk - < 0.1%  
Beta-Alpha Crosstalk - < 0.1%

Count Modes - Alpha only, Beta only, Alpha/Beta simultaneously

#### PHYSICAL

Size - 3.4 x 81.3 x 63.5 cm (33 x 32 x 25 in.) (H x W x D) (50 Samples)  
130 x 81.3 x 63.5 cm (51 x 32 x 25 in.) (H x W x D) (100 Samples)  
Weight - 195 kg (430 lb) Installed