

WPC-1050



Overview

The WPC-1050 is a general purpose 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. DUO Express software allows for easy system programming, data management, and control chart maintenance. Multiple instruments can be connected for user convenience. This sample counter is also ideal for standard Health Physics applications such as smears and air filters.

Features

- ⇒ Automatic Sample Changer
- ⇒ Touch Screen Interface
- ⇒ 2 in. (5.1 cm) Standard Planchet Diameter
- ⇒ Radon Progeny Compensation for Air Filters
- ⇒ Cosmic Guard Detector
- ⇒ Low Background Counter
- ⇒ Standard 50 Sample Capacity (100 Sample option)
- ⇒ 2.25 in. (5.7 cm) Pancake Style Gas Flow Detector
- ⇒ Dual Anode Wire Detector Option Available
- ⇒ GasPro Gas Conservation and Gas Loss Detection



Protean Instrument

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WPC-1050

Typical Efficiency ¹				
Source	Top	1/8" Bottom	1/4" Bottom	5/16" Bottom
Pu-239	35%	31%	25%	24%
SrY-90	51%	47%	40%	39%
Tc-99	39%	33%	28%	26%

Background				
Condition	Warranted (cpm)		Typical (cpm)	
	Alpha	Beta	Alpha	Beta
With Lead & Guard	<0.1	<0.9	0.05	0.7

Instrument Options and Accessories	
Option	Order Part Number
1/8 Inch Planchet	700-0007
1/4 Inch Planchet	700-0008
5/16 Inch Planchet	700-0009
Carrier Inserts, Set of 50, 1/8 in., 1/4 in., or 5/16 in.	140-0305
Mobile Cart	120-0011
50 Sample Stack, Stand, and Carrier Set	120-0075-50
100 Sample Stack, Stand, and Carrier Set	120-0075-100
Standard Carrier Set (1-50 + QC + Routine)	120-0033
Carrier Set of 50 (Any Sequence)	120-0034
100 Sample Stack Option	120-0036
Extended Warranty	108-0001
Service Contract	Service Contract
Installation	Install
Computer System	Computer
VISTA 2000	VISTA 2000

Accessories Supplied	
Accessory	Quantity
PIC Link Cable	1
1/8" and 5/16" carrier inserts	55
Standard Carrier Set	1
Two Stage Regulator & Tubing/Fittings	1 (CGA-350 standard)
2 end plates, 2 skip plates, 12 Routine Plates, 4 QC plates	1 Set

- (1) Efficiency determined using 2 inch NIST traceable distributed source.
- Environmental background during measurements: 8 µR/hr.
- Provided carrier insert size can be altered at time of order.
- All specifications are subject to change without notice.
- ROHS compliant (lead by exemption)

Instrument Specifications	
Category	Specifications
Sample Size	2 Inch Diameter (5.1 cm)
Capacity	50 (100 Optional)
Depth	1/8, 1/4, or 5/16 Inch
Data Export	USB Flash Drive, USB PIC Link
Interface	Touch Screen
Count Modes	Alpha Only, Beta Only, and Alpha/Beta Simultaneously
Power	110-240 Vac, 50-60 Hz Input
Window	Aluminized, 80 µg/cm ²
Operating Temp	10°C to 40°C (50°F to 104°F)
CE	Certificate of Compliance Available

Instrument Specifications	
Dimension/Item	Size
Height*	33 Inches (84 cm)
Width	32 Inches (81 cm)
Depth	25 Inches (64 cm)
Installed Weight*	430 lbs ((195 kg)
Shipping Weight	635 lbs (288 kg)
Shipping Dimensions	48x40x47" (122x102x119 cm)

Plateau: **Alpha *** **Beta***

Slope < 1.5% / 100V <2.5% / 100 V

Length >1000V > 200V

Crosstalk: **Alpha to Beta** **Beta to Alpha**

Instrument Induced: < 0.1% < 0.1%

Naturally Occurring: Source Dependent Source Dependent

*100 Sample option adds approx. 18 inches in height and 10 pounds in weight. Slope & Cross Talk using Po-210 & Sr/Y-90

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