

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 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 Compensation for Air Filters
- ⇒ Cosmic Guard Detector
- ⇒ Low Background Counter
- ⇒ Standard 50 Sample Capacity (Optional 100 Sample)
- ⇒ 2.25 in. (5.7 cm) Pancake Gas Flow Detector
- ⇒ Gas Conservation and Gas Loss Detection
- ⇒ Easy Window Replacement



Protean Instrument

10744 Dutchtown Road, Knoxville, TN 37932 / <http://www.proteaninstrument.com>

Tel: 865-392-4600 / Fax: 865-392-4600 / E-mail: picinfo@proteaninstrument.com

WPC-1050

Typical Efficiency					Background				
Source	Top	1/8" Bottom	1/4" Bottom	5/16" Bottom	Condition	Warranted (cpm)		Typical (cpm)	
						Alpha	Beta	Alpha	Beta
Pu-239	35%	31%	25%	24%	With Lead & Guard	<0.1	<0.9	0.05	0.7
SrY-90	51%	47%	40%	39%					
Tc-99	39%	33%	28%	26%					

Instrument Options	
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
Extended Warranty	108-0001
Service Contract	Service Contract
Installation	Install
Computer System	Computer
Simplicity Software Package	Simplicity

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, 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)

Accessories Supplied	
Accessory	Quantity
PIC Link Cable	1
2/8 Inch Inserts	55
Standard Carrier Set	1

Instrument Specifications	
Dimension	Size
Height*	33 Inches
Width	32 Inches
Depth	25 Inches
Weight*	430lb

- Efficiency determined using 2 inch NIST traceable distributed source.
- Environmental background reads 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)
- Alpha then Beta count mode available with Simplicity software.

*100 Sample option adds approx. 18 inches in height and 10 pounds in weight.