

IPC - 650 - HP

Alpha/Beta Counting Instrument



The IPC-650-HP ultra-low background windowless automatic is a newly redesigned instrument based upon the IPC-650, which was the foundation product of Protean. The ICP-650-HP incorporates a built-in color touch screen Interface and is targeted toward health physics applications. This hemispherical, windowless, gas-flow proportional counter design offers the best efficiencies available for low-energy beta and alpha particles

FEATURES:

- Automatic Sample Changer
- 5.1 cm (2 in.) Standard Planchet Diameter
- Standard 50 Sample Capacity
- Ultra-Low Background Counter
- Windowless Gas Flow Detector
- Touch Screen Interface
- Radon Compensation for Air Filters

SPECIFICATIONS:

TYPE

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

DETECTOR

Size - 5.7 cm (2.25 in.)
Type - hemispherical style gas flow proportional
Window - windowless
Guard Detector
Counting Gas 0 P-10, 150 cc/min @ 10 psi
Gas-Pro Protection - yes
Shielding - 10 cm (4 in.) thick

SAMPLE

Size - 5.1 cm (2 in.) dia. Planchets
Capacity - 50
Depth
Reader - bar code
Range - 1-999
Data Export - Serial RS-232

INTERFACE

Type - Remote PC
Compatible Software - Vista 2000

PERFORMANCE

Alpha Background - 0.05 cpm
Beta Background - 0.7 cpm
Po₂₁₀ Efficiency - 45%
Am₂₄₁ Efficiency - 45%
Th₂₃₀ Efficiency - 45%
Sr₉₀/Y₉₀ Efficiency - 55%
Tc₉₉ Efficiency - 45%
Cs₁₃₇ Efficiency - 45%
Ni₆₃ Efficiency

Alpha-Beta Crosstalk - <0.1%

Beta-Alpha Crosstalk - <0.1%

Count Modes - alpha only, alpha/beta simultaneously

PHYSICAL

Size - 68. x 55.9 x 86.4 cm (27 x 22 x 34 in.) (H x W x D)

Weight - 194 kg (427 lb)