

Physical

ASC-950 Specifications

Sample Detectors: ZnS+Plastic Dual Phosphor
Window: Aluminized window with nominal density of 80 µg/cm²
Size: 23.5" W x 23.5" D x 36" H (59.69 cm W x 59.69 cm D x 91.44 cm H)
Sample Size: 2" diameter planchets 1/8, 1/4, 5/16 inch deep
Weight: Installed 110 lbs (49.89 kg)
Shipping 220 lbs (99.79 kg)
AC Power: 117Vac, < 0.75A 50/60 Hz; 230 Vac, <0.4A, 50/60 Hz
Environment: 10-40°C; 20-90% humidity, non-condensing
Sample Transport: 50 Sample automatic changer with barcode reader with sample range 1 - 999

Performance

Background:	Alpha	Beta
Typical	0.2 cpm	40 cpm
Warranted	0.3 cpm	65 cpm

(Background values are dependent on environment and altitude. Warranted values are as measured at factory under controlled conditions).

Efficiency: Typical Sr^{90}/γ^{90} 45% Tc^{99} 30% Th^{230} 23%**

(Efficiencies are typical values; energy and geometry dependent; as measured at factory under optimized conditions with factory specified sources)
** Determined on a 2" distributed evaporated source at a 1/4" depth planchet.

Crosstalk:	Alpha to Beta	Beta to Alpha
Instrument Induced	<0.1%	<0.1%
Naturally Occurring	Source Dependent	Source Dependent

(Refer to Applications Note AN-0108)

Detector Uniformity: >95% over active area

Dead Time Correction: Tested to 300,000 cpm with < 1.5% dead time loss.

Count Modes: Alpha Only, Beta Only and Simultaneous Alpha + Beta

ASC-950 Ordering Information

50 sample carriers with inserts for 1/8" and 5/16" planchets. (planchets are not included).
12 Routine Plates, 4 QC Plates, 2 End Plates, and 2 Skip Plates.
1 Year Warranty.

Options

120-008: Ultra-Thin (80 microgram/cm²) detector window
700-0007: 2 x 1/8" Stainless Steel Planchets (Set of 100)
700-0008: 2 x 1/4" Stainless Steel Planchets (Set of 100)
700-0009: 2 x 5/16" Stainless Steel Planchets (Set of 100)
140-0305-1/4: 1/4" Inserts
120-0036-ASC: 100 Sample Stack Option
120-0034-ASC: Extra set of 50 sample carriers (Specify number sequence 51-100, 101-150 etc.)
120-0075-ASC: Extra Stack and Stand (Includes 50 Sample Carriers or 100 Sample Carriers depending on stack size)
Vista FC Software: Health Physics Applications and Control Software for use in operating the system from a computer.
120-0011-ACC02: Wheeled cart
120-0010-DP: Lead Ring 50 lbs (22.68 kg)
Extended Warranty: Extra 1 year
Installation: On-Site Installation and introductory training. Two days on-site. All labor and travel expenses included.
Computer: PC with Monitor and Laser Printer
ACC-03: Dot Matrix Line Printer or Laser Printer

(All specifications are subject to change without notice.)



MetorX B.V
Oostdijkseweg 12
3252LN Goedereede
www.metorx.com
info@metorx.com
+ 31 187 630176