The TSA BM285 is designed to screen medium-sized items for radioactive emissions and is ideal for monitoring prior to release from the facility. With an efficient and accurate go/no go analysis and typical scan times of one to three minutes, the BM285 waste monitor allows for cost effective waste management.

Advanced Design Features
The TSA BM285 high sensitivity and uniform measurement is achieved by using large volume plastic scintillator detectors on all six sides of the counting chamber for effective and accurate screening of all sides of the item. The load platform, containing the weight monitoring load cells, is mounted on sliding runners to facilitate easier loading of heavy samples. With lead shielding on all sides, the BM285 provides higher sensitivity and isolates the scanned item from any external radiation influence.

Programmable Detection Parameters
With the ability for an administrator to define screening parameters, customizing the TSA BM285 for specific radioactive isotopes or ‘waste streams’ is possible. The operator selects the proper waste stream from an annotated list for each item to be scanned, making the BM285 flexible when screening for multiple contaminants.

Easy-to-Operate
Operation is simple using the color touchscreen panel PC. Easy to read graphics provide instant reporting of system status and operating mode. Administrators can generate reports for all activity or only alarmed activity for efficient record keeping on waste disposal.

Flexible Options
With the optional scale the TSA BM285 is able to greater enhance facility operations. The BM285 comes standard with a stainless steel liner that protects the detectors and allows for easy cleaning if contaminated. An optional aluminum liner is available if greater sensitivity is required. With the optional sodium iodide detector, spectral isotopic identification to fit specific detection requirements is possible.
TSA BM285

Specifications

Sensitivity
See the Minimum Detectable Activity Chart below

Detectors
Two 12" h x 19" w x 1.5" d in. (30 x 47.5 x 3.75 cm), plus four 12 h x 25" w x 1.5" d in. (30 x 63.5 x 3.75 cm) plastic scintillator detectors, provides 2484 in³ (41 liters) of detector volume per system. Gamma energy range of 40 keV to 1.6 MeV, can be limited with discriminators. Detectors are fully shielded by a minimum of 1.75 in. (4.4 cm) of lead.

Display
Super VGA color flat panel monitor with touch screen.

Power Requirements
115/230 Vac, 47 - 63 Hz, 400 VA

Dimensions
56" h x 42" w x 44" d in. (1,422 x 1,066 x 1,117 mm), the control box is 6" in. tall (152 mm), mounted on top of the unit and the PC extends 17" in. (432 mm) on the side

Chamber Dimensions
32"h x 28"w x 28"d, (80 x 70 x 70 cm)

Volume
10 ft³ (300 liters)

Weight
9,998 lbs (4,535 kg)

Environmental
32° to 100° F (0° to 38° C)

Minimum Detectable Activity Chart

Options

Aluminum Liner: provides minimum attenuation

Sodium Iodide Detector: NaI (Tl) detector and 1,024 channel MCA for spectral isotopic identification

Slide-out Tray

Internal Scale

Printer

Rapiscan

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