



Model 727/727R

Lead Shield



Nuclear



Healthcare



Homeland
Security
& Defense



Labs and
Education



Industrial and
Manufacturing

KEY FEATURES

- Low background lead – 5 cm thick
- Accommodates large samples
- For standard or well detectors
- Full 4π shielding

DESCRIPTION

The Model 727 Universal Shield accommodates NaI(Tl) detectors up to 3 in. x 3 in. in size providing two inches of lead shielding around the detector. The shield is lined with 0.6 cm (0.25 in.) thick copper or brass to minimize interference from lead x-rays and is jacketed with 0.6 cm (0.25 in.) of steel and finished with an attractive and durable textured epoxy paint.

The 727 can be used with either standard or well-type detectors and will accommodate samples up to 8.9 cm (3.5 in.) diameter and 7.6 cm (3 in.) long. Access to the sample chamber is available by way of the stepped plug which affords a 2.5 cm (1 in.) diameter opening, or by way of the swivel top which opens almost effortlessly to either right or left, providing the full-area opening necessary for large samples.

Adapter kits are available for a variety of detector sizes. The optional sample holder provides for sample-detector spacing of 0 to 3 inches in 0.25 inch increments.

The Model 727R is like the Model 727 except it has an enlarged sample space to accommodate 10 cm (4 in.) diameter charcoal canisters. The enlarged sample space is 11.4 cm diameter by 3.8 cm deep (4.5 by 1.5 in.).

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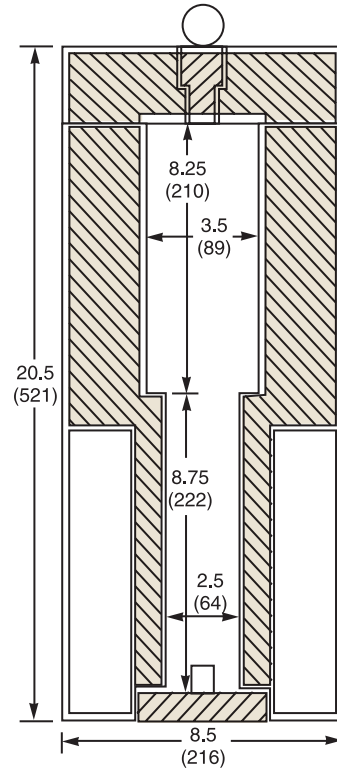
SPECIFICATIONS

PHYSICAL

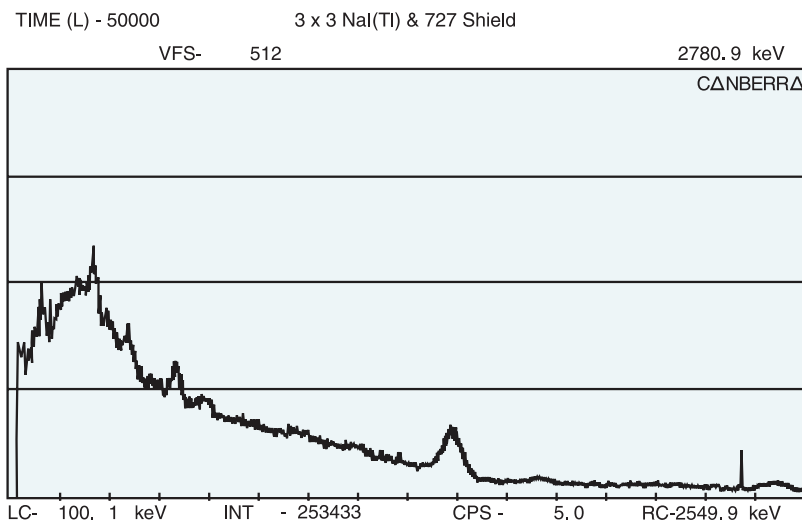
- DIAMETER – 21.6 cm (8.5 in.).
- HEIGHT – 52.1 cm (20.5 in.).
- WEIGHT – 127 kg (280 lb).
- SHIPPING WEIGHT – 138 kg (305 lb).

ACCESSORIES

- Model 727-1 – Adapters for 802-2 x 2, 2 x 2W.
- Model 727-2 – Adapters for 802-3 x 3, 3 x 3W.
- Model 727-3 – Sample Holder (For 727 only).



Cross Sectional View Dimensions
in inches (mm)



Background Spectrum from 3 x 3 NaI(Tl) Detector



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