



Trusted
radiation
protection.

841-334

Three Liter Off-Line Sampler

The 841-334 Three Liter Off-Line Sampler is an off-line sampler designed to be used in a noble gas or liquid radiation monitoring channel. The sampler chamber provides mounting for a 943 Series detector. When noble gases are monitored, a 943 Series Beta Scintillation Detector is mounted in contact with the air sample. When liquids are being monitored, a 943 Series Gamma Scintillation Detector is mounted in a well assembly so that it is isolated from the sample flow.

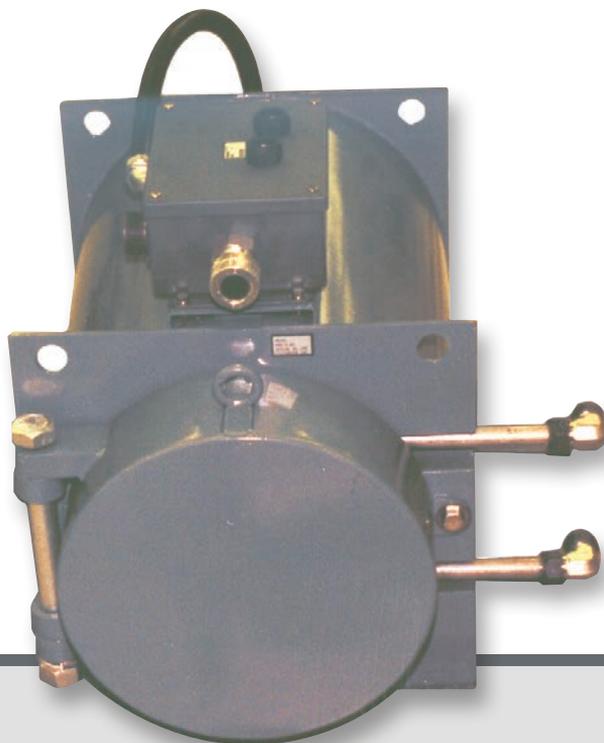
There are two check source assemblies which can be used with the sampler, depending on the monitoring channel used. If a 943 Series Beta Scintillation Detector is used, a 844-20 Check Source Assembly is strapped on the rear portion of the detector. If a 943 Series Gamma

Scintillation Detector is used, the rear of the sampler is designed to mount a 844-3 or 844-3-25 Check Source Assembly.

Two versions of the sampler are available; model number 841-334 for gas monitoring, and model number 841-334-5A with well for liquid monitoring.

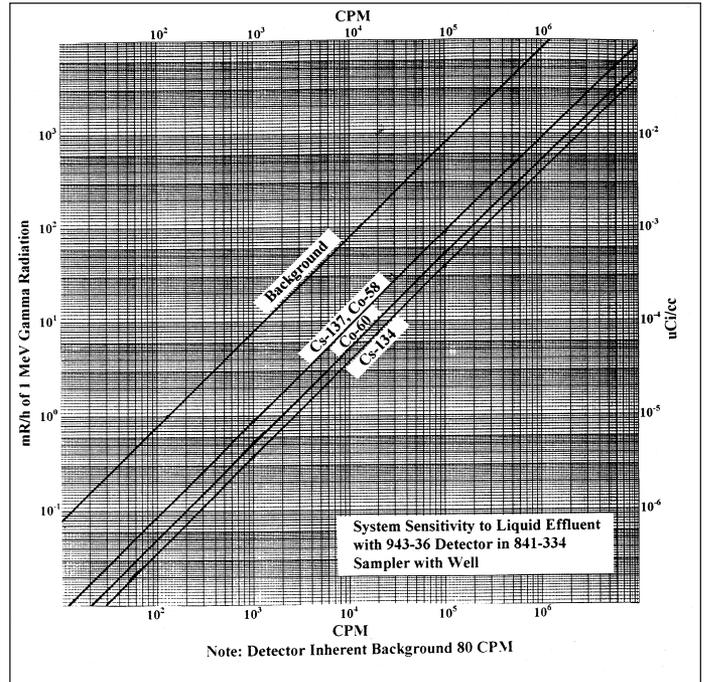
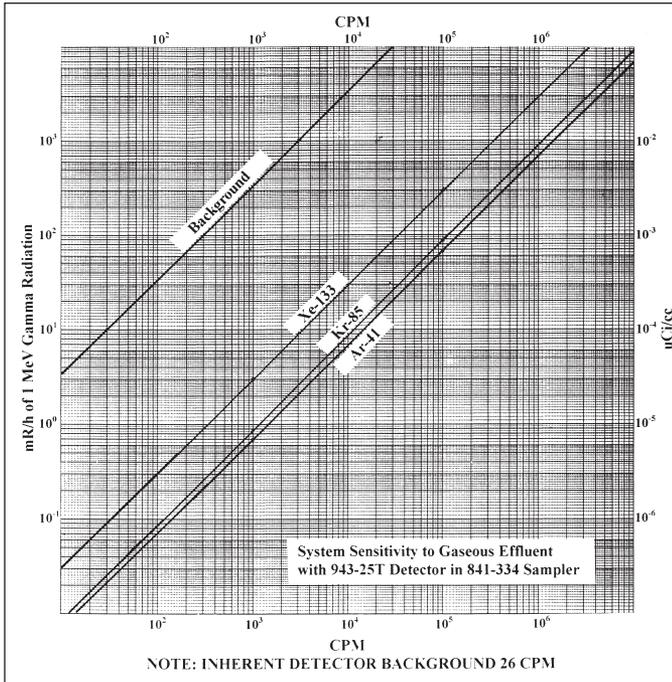
Applications

The 841-334 Sampler is a shielded fixture, which isolates the detector, while monitoring gases/liquids, from any background radiation. This allows a true reading of the monitored gases/liquids.



Key features

- Three liter volume used in off-line gas or liquid applications
- Provides compatible mounting for all 943 Series scintillation detectors
- Teflon® coated
- Removable polished stainless steel liner and well (for liquid applications)
- 4 pi lead shielding
- Available as a “stand alone” monitor or as a component in a custom designed process monitor
- Usable with all pulse mode scintillation detectors
- Optional detector junction box and solenoid actuated check source available
- Hinged door for easy access to detector
- Qualified for Class 1E applications



Technical specifications

Detector type

943 Series Beta or Gamma Scintillation Detectors

Dimensions (h x w x d)

16 in x 25.6 in x 16 in
(406.4 mm x 650.2 mm x 406.4 mm)

Weight

1600 lb (727 kg)

Sensitive volume

191 in³ (3130 cc) with well installed and (3300 cc) without well

Inlet connection

.75 in OD tubing

Outlet connection

.75 in OD tubing

Shielding

4 in lead 4 pi

Internal walls

Stainless steel

Volume assembly

Model 841-333-7

Well assembly

Model 841-5-4A, stainless steel—removable for decontaminating

Ordering information

Model

841-334: Three Liter Off-Line Sampler for gas monitoring

841-334-5A: Three Liter Off-Line Sampler with well for liquid monitoring



6045 Cochran Road
Cleveland, OH 44139-3303 U.S.A.

For more information, please contact us at:

Phone: 440-542-3628

Email: Sales@Victoreen.com

Web access: www.victoreen.com

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