

RAPID RADON MONITOR

Model # FR-5-FS

快速氡监测器

FEATURES 特点

- SYSTEM GIVES QUICK MEASUREMENT
系统进行快速测量
- BETTER THAN 1 PICO CURIE PER LITER SENSITIVITY WITH ONE HOUR WAIT
一小时后灵敏度优于每升1皮居里
- PORTABLE (AC OPERATED)
便携 (AC供电)
- REPLACEMENT CARTRIDGES WIDELY AVAILABLE
可替换滤芯, 容易购买



A two part system is included in this monitor with charcoal filter holder, second a scintillation counter/scaler. In practice, the pump and filter holder are taken to the area to be tested and air pulled through the filter for a period of at least 3 minutes. (Longer pull times increase the sensitivity but 3 minutes gives the sensitivity of 1 picoCi/liter.) Part two, the scintillator/scaler, receives the sample and counts the activity. A 3 minute count based on a 3 minute sample achieves 1 pico Ci per liter. A ten minute count based on a ten minute sample achieves a 0.1 pico Ci/liter sensitivity. A waiting period of approximately one hour after taking the sample and before counting is required to maximize the sensitivity. Longer or shorter waiting times (from ten minutes to seven days) will still allow detection and accurate measurement of Radon in air but at lesser sensitivity than above.

此仪器包含两部分, 带炭滤器固定器, 闪烁计数器/定标器, 使用时, 泵和滤器固定器现场测试, 空气通过滤尘网抽进至少3分钟, (更长时间进气可增加灵敏度但是3分钟进气灵敏度达1 picoCi/liter), 第二部分, 闪烁体/定标器接受样品计量活度。基于3分钟采样的3分钟计数达到每升1皮居, 基于10分钟采样的10分钟计数达到0.1皮居每升灵敏度。取样后计数前要求等待时间接近1小时以增加灵敏度, 稍长或稍短的等待时间(从10分钟到7天)仍旧允许探测和精确测量空气中氡但会比上述减少灵敏度。



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Divisions of  US NUCLEAR CORP

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1. Collection MODEL AS-2

采样MODEL AS-2

Regulated Air Sampler complete with pump and flow meter and filter/cartridge holder.

调节空气采样器，配备泵，流量计和滤网/滤芯固定器

Free air turbine pump capacity is 30 CFM, under constant surveillance by flow meter.

空气涡轮泵容量30 CFM，由流量表连续监测

10 cartridges are furnished as standard part of the AS-2.

10个滤芯作为AS-2的标准配件

It should be noted that cartridges may be reused if the count of the cartridge shows zero counts above background.

应该指出的是如果滤芯计数显示本底以上零计数，则可以重复使用

2. Scintillation/counter consists of MODEL PRS-5 or cheaper scaler electronic package coupled with MODEL STG-4 Pi shielded sample holder scintillator.

闪烁/计数包含型号PRS-5或更便宜的定标器电子封装耦合到MODEL STG-4 Pi 屏蔽样品托的闪烁体探头

Note: Additional charcoal cartridges are available

注：供应额外碳滤芯

SENSITIVITY: 1 pico Ci/liter with 3 minute air collection and 3 min count after 1 hour wait.

灵敏度： 3分钟集样，3分钟计数一小时等待后为1皮居/升

DAILY VARIATIONS: Radon concentration varies dramatically during each day. To measure daily average value, leave pump operating in place for 24 hours, then wait at least one hour and make measurement. Quiet pump will not disturb most sleepers in adjacent rooms.

日变化：氡浓度每天中变化很大，要测量日平均值，保持泵连续运转24小时，然后至少等一小时并测量，静音泵不会影响邻近房间中大多数人睡眠。

REUSE OF CARTRIDGE: The cartridge will rid itself of Radon in approximately 2 weeks with no action, or can be rid completely of Radon in 1 hour by heating in oven for 1 hour at 250 degrees F.

重复使用滤芯： 滤芯将在将近2周内自动清除氡，或者通过放在250华氏度烤箱内加热1小时完全清除氡。



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SPECIFICATIONS: 规格:

- **Electronics:** Programmable. 电子学: 可编程
- **Pump:** High Flow Pump and Filter holder. 泵: 高流量泵和滤器固定器
- **Flow Rate:** 227 liters/min (7.5 cfm) 流量: 227 liters/min (7.5 cfm)
- **Filters:** Includes package of glass fiber filter papers. 滤尘器: 包括一包玻璃纤维滤纸
- **Air Inlet:** Direct from room or environment (or **Optional** inlet hose).
进气口: 直接从房间或环境中进气 (或选购进气软管)
- **Breathing Zone: Optional Tripod.** 呼吸带: 选购三脚架
- **Filter Holder:** Unique TA Quick-Change Filter. 滤器固定器: 独家TA快速更换滤尘器
Optional Holder for larger filters, such as 4" dia. or rectangular filters.
选购: 较大滤器托, 如直径4"或长方形滤尘器
- **Filters:** 2" dia. glass filters also can use wide variety of 2" filters.
滤尘器: 直径2"玻璃纤维, 也可使用各种各样的2"滤尘器
- **Flow Rate:** Typical 227 lpm (7.5 cfm). 流量: 典型227 lpm (7.5 cfm).
- **Flow Measure:** Precision Air turbine and sensor give Real-time flow rate and total flow.
流量测量: 精确空气涡轮和传感器给出实时流量和总流量
- **Analysis and Readout:** On-the-Fly Real-time analysis and readout give continuous flow rate, total flow rate and time.
分析与读数: 实时分析和读数允许连续流量, 总流量和时间
- **Display:** 6 digit Bright LED Easy to Read. (AS-100AC)
显示: 6位数读数, 发光LED, 容易读出 (AS-100AC)
- **Auto-Shut Off:** Triggered by preset sample time or preset total flow value.
自动关闭: 触发预设采样时间或预设总流量值时自动关闭
- **Data Output:** RS-232 data port is standard.
数据输出: 标准RS-232数据串口
- **Case:** Electronics housed in enameled aluminum housing; handle included.
外箱: 电子学封装在铝箱中, 包括把手
- **Dimensions:** 17"W x 13"H x 13 1/2"D.
尺寸: 17"W x 13"H x 13 1/2"D.
- **Power: AS-100:** 12-24Volt DC.
电源: AS-100: 12-24V, DC.
AS-100-AC: 115Volt AC (**Optional** 230VAC).
AS-100-AC: 115V, AC (选购 230VAC).
- **Shipping Weight:** 84 lbs (Including Tripod).
装运重量: 84磅 (包括三脚架)



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