



ACTIVE TRAP PA³

SMART SOLUTION DEDICATED TO TRITIUM SAMPLING

Derived from the PA3 passive trap, this version is suitable for on-line sampling for in-stack or glovebox control. With 100% tritiated moisture adsorption efficiency, this version of active PA3 becomes easy to use and low cost equipment.



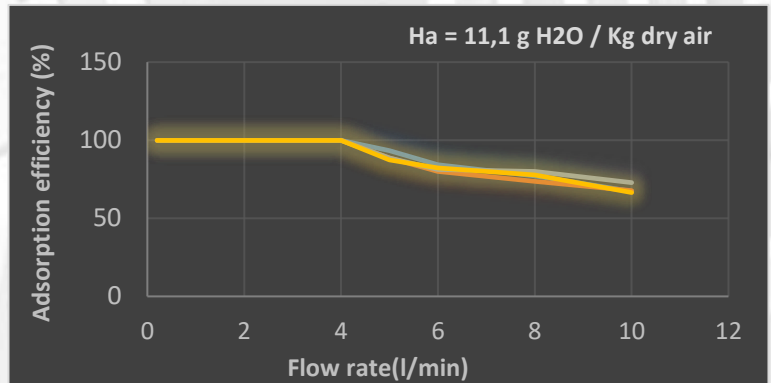
HOW IT WORKS

The active trap PA3 consists of a tapered cartridge welcoming a molecular sieve (adsorbent material) which collected preferentially atmospheric tritium in proportion constant regardless of the relative humidity. With at its ends 2 chimneys allowing air to be drawn through the cartridge and this specific geometry, the adsorption yield in mass of tritiated water is homogeneous over the entire sieve and 100% (tritiated water is completely trapped) up to a flow rate of 4 liters / minute .



CARACTERISTIQUES TECHNIQUES

- Pre-filled cartridge (molecular sieve)
- Régénération via BAN3 (10x min.)
- Adsorption efficiency of 100%
- Air flow rate max. 4l/min
- Molecular sieve Zéolite 13X
- Stainless steel 304L
- Weight < 1kg



The weight of trapped tritiated water is easy estimated. $M(g) \text{ HTO} = \text{Flow Rate} * \text{Time} * \text{Ha}$

