

## PTI PN CALIBRATOR SET

AUTONOMOUS MULTI-STAGE CONDITIONNING,  
DILUTION SYSTEM AND REFERENCE FOR PARTICULATE  
COUNTING DEVICE VERIFICATION & ADJUSTMENT



**Traceability ISO 17025**

Salt particulate  
Generator



Conditioner



Aerosol liquid



Reference



## PTI PN VERIFICATION & ADJUSTMENT SET

The measurement of particles requires know-how, new means and above all sound investments.

The implementation of the measurement means is delicate and involves means directly coming from certified laboratories. However, the verification of Technical Control equipment must be simple, precise, repeatable, controlled and cost effective without necessarily having to systematically resort to metrologists.

PTI PN CALIBRATOR SET offers a complete solution connected including a reference, verified periodically.

This robust kit is quick and ultra-simple to implement. It dispenses with the need to take expensive, fragile laboratory reference equipment and a set of complementary means into the field.

PTI PN CALIBRATOR provides 5 predefined, stable concentration values verified by an official laboratory (METAS)



## CAPELEC DESIGN

- PTI PN CALIBRATOR set integrates an aerosol nebuliser to generate an aerosol of fixed size and adjustable concentrations.
- The use of a saline solution nebulisation is totally safe for the user.
- Rapid and efficient solution (no external dilutor, no flow splitter, no reference measurement, no neutraliser required).
- Available long conservation salty water consumable (salt concentration under quality control)
- No need to wait for reference CPC equipment to be stabilised
- Pre calibrated values (5 values for linear test)
- Simple circuit and simple set-up
- No harmful consequences due to transport
- Cheaper price calibration setup

## REFERENCE: CAP 3070-REF

- Range  $5 \times 10^3 - 5 \times 10^6 \text{ \#/cm}^3$
- PTB counting efficiency specification
- Measurement lower than 8%
- Tablet & software included

## METROLOGICAL SPECIFICATIONS

- Recommended values for PTI:
  - High value:  $5 \times 10^5 \text{ zero \#/cm}^3$
  - Medium value:  $2.5 \times 10^5 \text{ \#/cm}^3$
  - Low value:  $50\,000 \text{ \#/cm}^3$
  - zero  $\text{\#/cm}^3$
- Set up compliant to Dutch, Belgium and German concentration settings :
- Poly disperse Flow :
  - GMD :  $70\text{nm} \pm 20 \text{ nm}$
  - GSD:  $1.5 < x < 2.1$
- Adjustment settings can be locked and verified by official lab (METAS)
- Stability of concentration generation:  $\pm 3\%$ .
- Warm-up time :  $< 1\text{mn}$
- Set up time:  $< 5\text{mn}$
- Temperature of use :  $0^\circ \text{ to } 50^\circ\text{C}$
- Output flow :  $> 15\text{l/min}$
- Weight: 15 kg
- Power supply: 100-240 VAC - 50-60hz

