



# Portable Microbe Enrichment Unit (PMEU)

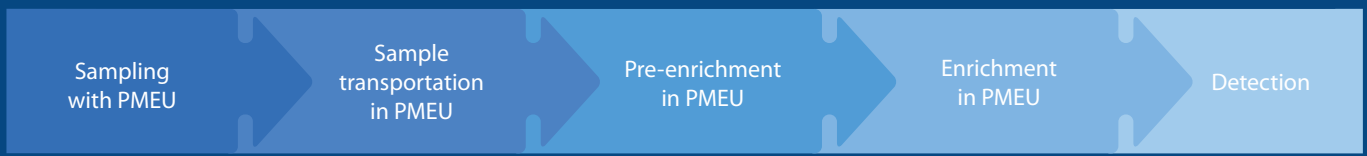
New, rapid device for microbe diagnostics

- Microbiological field laboratory right in the early phases of determination process:
  - sampling and sample treatments
  - enrichment cultivations
- Fits to any further analysis method
- Microbe prevention tests for the detection of organic chemicals and microbes in waters

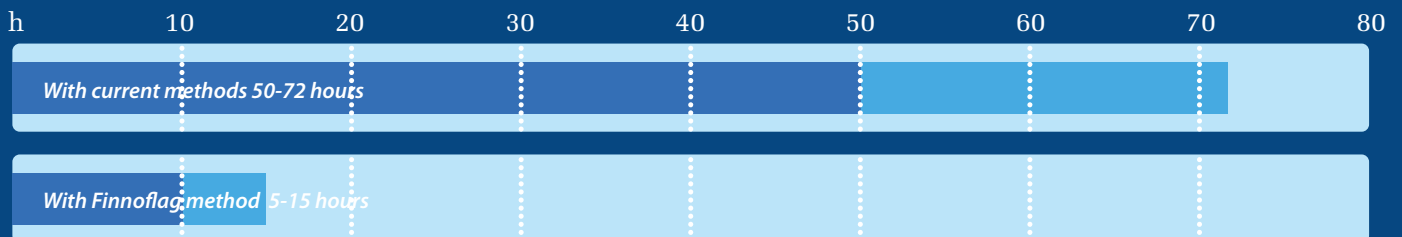
Also available PMEU Spectrion® and PMEU Scentrion® models with ultrasensitive on-line detection and remote control.



## MICROBE DETECTION PROCESS



## SALMONELLA DETECTION



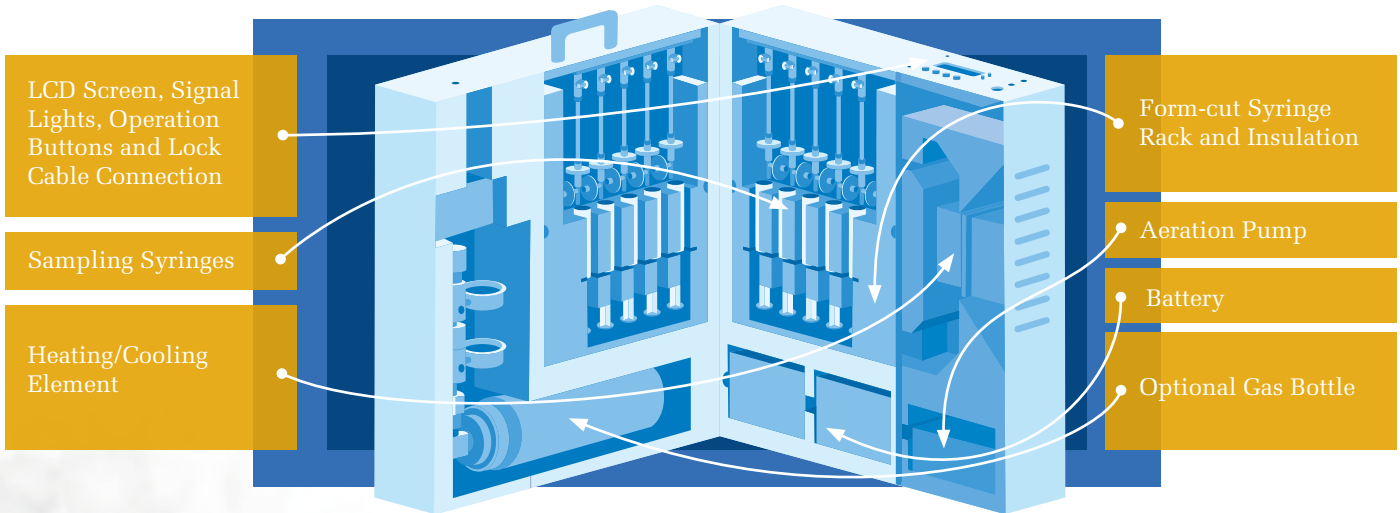
FASTEST MICROBE CULTIVATION METHOD  
 HELPS MICROBE CELLS IN POOR CONDITION TO RECOVER  
 THE MOST ACCURATE, RELIABLE AND SENSITIVE METHOD FOR MICROBE RESEARCH

## PMEU PERFORMANCE

- Samples are cultivated inside the device in special sampling syringes
- Final detection may be performed using any existing method or equipment

- Optimal growth of microbes ensured by
- using specific culture media
  - leading air or gas to the samples to perform diffusion of nutrients
  - controlling the inside temperature of the device

## PMEU TECHNICAL DESCRIPTION



## PMEU USER BENEFITS

### Portability

- Enrichment begins directly after collecting sample
- Can be used outdoors, in industrial facilities, in point-of-case situations or in normal laboratory environments
- Transport and storage time utilized

### Ease-of-use

- User-friendly design and features
- Easy to use also by non-professionals
- Does not require extensive user training

### Optimal Enrichment Conditions

- Keeps microbes in an optimal growth environment
- Sample quality preserved
- Suitable for both aerobic and anaerobic microbes
- Optimal diffusion of gas and nutrients
- Controllable inside temperature and air/gas flow

### Savings

- Compatible with all existing final analysis or detection methods or equipment
- Saves work-time, material and equipment compared to conventional methods
- Fast, reliable results = Faster decision-making

### Efficiency to detection process

- Faster and more reliable results
- Shortens detection time by hours or even days depending on microbe
- Rapid recognition of organisms that are in the minority in a mixed population
- Improved indication of environmentally stressed microbes
- Enrichment of desired antigens or other biomolecules

### Safety

- Minimizes contamination risk
- Improves safety during microbiological sample handling and analysis

## APPLICATION AREAS

- Industrial Food Microbiology
- Healthcare Research and Solutions
- Environmental Control
- Veterinary Microbiology
- Hygiene Quality Control
- Pharmaceutical Industry
- Cosmetics Industry
- Wood Processing Industry
- Security Applications
- Agriculture and Fisheries
- Clean Room Production

PMEU IS A SFS-ACCEPTED METHOD FOR FINNISH STANDARD TUBE TESTS.  
SAMPLION LTD'S PRODUCTION IS CERTIFIED ACCORDING TO THE ISO 9001 STANDARD.

