



Applied Physics, Inc.

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Nano Particle Technology

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Microbial Air Samplers

- EMTEK V100 Controller Simultaneously Supports 1-4 Downstream R2S or RAS Air Samplers
- Virtually Particulate Free and Designed to Operate without Disrupting Critical Environments
- Highly Accurate Air Flow Control @ 28.3 LPM, 50 LPM 100 LPM
- High Microbial Capture Efficiency with a Broad Size Range
- Compact Design, User Friendly Operation, Touch Screen Interface, Onboard Data Printer
 - ▶ Bulk Production Suites, ISO7-9 Areas: Media Prep, Fermentation, Buffer Prep, Purification, etc.
 - ▶ Aseptic Connections on Vessels and Transfer Panels in ISO 5 - ISO 9 Areas
 - ▶ Bulk Filtration/Filling and Key Intermediate Steps, ISO 5 LAF Hoods
 - ▶ Final Filtration/Filling, ISO 5 Filling Lines and Barrier Isolators
 - ▶ Support areas ISO 6-9, Adjacent to ISO 5 Hoods, Hallways and Personnel Air Locks
 - ▶ QC Product Testing, Sterility Testing Chambers, LAF Hoods, Bio-safety Cabinets
 - ▶ R&D and Product Development Labs/Facilities



Microbial Air Samplers support Pharmaceutical and Biological monitoring and testing. Microbial Air Sampling is the process by which air from a controlled, or uncontrolled environment, is evaluated for the load of bacterial and fungal microorganisms from the air sample. Microbial Air Samplers differ from Laser Particle counters, which size and count aerosol particles, then disposing of the sampled particles, providing histograms on size and quantity of aerosol particles. EMTEK Microbial Air Samplers provide a distribution of real time, actual microbial particulates within the sampled volume of air. Laser Particle Counters are superb to count and size aerosol particles, but offer no value for collection of biological particulate matter that may be harming your production process. It is valuable to monitor for bacteria and fungi

in the ambient air and compressed air/gas systems in your ISO 5 - 9 clean room production areas. Monitoring the production environment prevents minor contamination events from becoming significant production issues; supports the guidance in the countries that your produce in and sell to, such as USP 797, EU/MCA, JP, FDA, ISO, PICS, etc.; while allowing your staff to develop confidence in your Pharma and Bio Pharma manufacturing process.



EMTEK, Longmont, CO USA has nearly 35 Years of Pharmaceutical Manufacturing Experience that guides their design experience in providing well designed, highly accurate, compact air samplers to meet precise industry environmental requirements. SEE RAS, R2S and RCG on Pg. 2.



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1) V100 Controller and R2S, Slit to Agar impactor, Remote-Slit-Sampler

The Remote-Slit-Sampler (R2S), remote Slit-to-Agar Impaction sampling device offering high recovery efficiency in a small footprint.

- Constructed of Aluminum / 316 Stainless Steel
- Exterior Finish of White Epoxy/Polyester Coating
- Clear Polycarbonate Dome Assembly w/Distance Gauge
- Weight of 3.25 Pounds
- Dimensions of 5.5" Height x 5" Diameter
- Turntable Stepper Motor Controlled
- Base can be Chemically Sanitized, Dome/Seal Autoclavable
- From 0-120 Minutes of Monitoring per Sample Cycle
- Extended Sample Cycles Possible (e.g., 120 minutes)
- R2S Sample Rates:
 - Sampling Rate Options of 28.3 LPM (1 - 4 samplers, Clear)
 - Sampling Rate Options of 50 LPM (1 - 2 samplers, Green)
 - Sampling Rate Options of 100 LPM (1 sampler, Blue)

2) V100 Controller and RAS, Sieve impactor, Remote Autoclavable Sampler

- 300 Inlet Hole Cover
- 1.75" Tall x 4.25" in Diameter
- Adjustable Test Media Stage
- May be Sterilized by Autoclave, or Chemically Santized/Sterilized
- From 0-60 Minutes of Monitoring per Sample Cycle
- RAS Sample Rates:
 - Sampling Rate Options of 28.3 LPM (1 - 4 samplers, Clear)
 - Sampling Rate Options of 50 LPM (1 - 2 samplers, Green)
 - Sampling Rate Options of 100 LPM (1 sampler, Blue)

3) V100 Controller and RCG, Remote Slit to Agar, Compressed Gas/Confined Space Sampler

R2S Assembly plus:

- Aluminum Sanitary Inlet Attachment
- SS Sanitary Clamp/PTFE Seal
- Sanitary Barb
- Vacuum Tubing
- Dome Retention Assembly of Aluminum, 316 SS and Tubing
- 0-120 Minutes of Monitoring per Sample Cycle
 - Sampling Rate Options of 28.3 LPM (1 - 4 samplers, Clear)
 - Sampling Rate Options of 50 LPM (1 - 2 samplers, Green)
 - Sampling Rate Options of 100 LPM (1 sampler, Blue)
- Compressed Air/Gas Sample Rates:
 - Sampling Rate Options of 50 LPM (1 - 2 samplers, Green)
 - Sampling Rate Options of 100 LPM (1 sampler, Blue)
- Requires Microbial High Pressure Diffuser for High Pressure Systems