

PinpointTM
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ImpactAir[®]

High Performance Microbial Air Samplers

Introduction

The **ImpactAir®** range of microbial air samplers have been designed to meet the demanding requirements of the pharmaceutical, healthcare and specialist food industries.

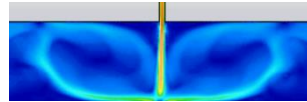
The pharmaceutical industry strives to standardise methods across all of its processes but often it is difficult to find a single solution. The **ImpactAir®** has a modular design and can, using the same fundamental technology and performance validation, be adapted into a range of formats to suit the specific deployment needs.

Within the range are the following deployment options:

ImpactAir®	Standalone fully automatic with touch screen user interface
ImpactAir® RABS	Dual user interface for use inside RABS, with the secondary controller on the outside
ImpactAir® ISO	Modular system, designed to integrate into Isolators, with external controller and remotely located air mover

Technology

Air is drawn at high speed through a very narrow inlet slit, whereupon particles, including microbes in the air, impact and stick onto an agar surface in a petri dish.



The petri dish is slowly rotated under the inlet thus ensuring the air is always 'impacted' onto a fresh area of agar. This dramatically reduces the probability of 'twin impingement', a phenomena where two microbes land at the same point and appear as a single colony when incubated - this is an issue associated with sieve type samplers.

The **ImpactAir®** range uses the larger 14cm petri dishes which allow the system to sample for longer periods onto a single dish. The sampling time is programmable from minutes to many hours. With a deep fill agar plate it is possible to sample for several hours onto a single agar plate. Sampling 1m³ is achieved in 35 minutes and 20 seconds with the flow rate of 1 cubic foot per minute.

With any impaction sampler, the distance between the inlet and the surface of the agar is critical and has a major effect on the sampling efficiency. The agar in petri dishes is often not a constant depth so the **ImpactAir®** is the first sampler of its kind to employ precision sensing and control to automatically adjust the distance throughout an entire run to ensure a consistent d50 value is maintained. This is supported by the results obtained from the

independent physical and biological validation carried out by Public Health England (PHE). Full reports are available.

Unlike some other air samplers, **ImpactAir®** due to its unique design does not shed particles so is able to operate in environments alongside particle counting devices without causing increased readings. **ImpactAir®** exhibits very low vibration and can therefore be operated near balances.

Specification

Air flow	28.3 litres per minute (-0% to +5%) – 1cu foot per min
D50 Value	<0.5µm (sample to below 0.5 micron particles)
Petri dish	14cm T.S.A
Sample time	1 min to 9 hours
Plate usage	1% to 100% in 1% increments
User interface	Touch screen LCD
Plate height adjustment	Fully automatic throughout entire run
Exhaust	Internal H14 HEPA filter or exhaust via tube.
Flow control	Automatic
Validation	Physical & biological efficiency at PHE (UK Gov)
Construction	316L Stainless Steel
Inlet	Bayonet fitting with range of standard adaptors
Accessories (optional)	Trolleys, inlets, isokinetic probes, exhaust ducts, aseptic dish handling tools, Agar plate lid holder.
Communication	USB, CAT5
Portability	Integrated carry handle option
Air Mover MTBF	15,000 hours
Noise	65dB
Power	100-250V, 50-50Hz, Less than 50 Watt
Weight	9.5Kg
Size	Width 200mm x Depth 250mm x Height 250mm
Certification	CE, CB

About Pinpoint Scientific

When you buy a Pinpoint product, you are buying into our passion to produce the best products available. Our products are high performance, robust and reliable. We only sell through agents that can provide excellent support. We work closely with key customers to ensure that the design our products meet our customer needs while welcoming enquires for bespoke solutions.