



CAT PRODUCTS



Qualification of compressed gases
Microbiological Air Sampler for compressed gases
PDS Pharma III.Compressed.Gases.EX
Pre-programmed gases (compressed): Air, N₂, CO₂,
Ar and O₂



Description

The PDS Pharma III.Compressed.Gases.EX has been developed to control the microbiological contamination in compressed gases. The sampling method is based on the approved standard impaction principle but adapted to under pressure measuring scenarios. Standard 90-100 mm Petri dishes can be used. The most widely used gases in the industry are pre-programmed. All instruments are delivered as explosion-proof versions.

Unique Benefit

The micro organisms are collected under the same pressure as in the gas-distribution system. The automatic decompressed cycle is started not before finish of the collection cycle. Pre-programmed also for Oxygen.

Application field

Our product has been designed for compressed gases used in the pharmaceutical and food industries and other critical fields. Compressed gases may be connected directly to the instrument from 1 up to 10 bars. The instrument is easy to handle, works absolutely automatically and is operated by a rechargeable battery. It is possible to connect it to a PC.

Function al principle

The PDS Pharma III.Compressed.Gases.EX is a microbiological air sampler for compressed gases based on the principle of the Andersen air sampler ("golden standard") and aspirating air through a perforated plate. The resultant airflow is directed onto a standard agar poured plate. After the collection cycle, the Petri dish is incubated and the colony forming units (CFU) are counted. The system operates with a high-performance suction device, and the aspirated volume is continuously monitored. The system measures the inflow of air and regulates the aspirated volume to a constant value of 100 Standard litres per minute. The PDS Pharma III.Compressed.Gases.EX automatically regulates the volume according to pressure and temperature and thus gives all the time comparable results. For measurement in pharmaceutical industry the recommended sampling volume – according to international guidelines – should be 1000 litres.

Pros

- Standard explosion proof version
- Integrated pressure and volume sensors
- Uses standard 90-100 mm Petri dishes
- Dialogue software
- PC interface

Technical specifications

- Airflow 100 or 50 litres/minute at 1 - 10 bar
- Rechargeable battery (autonomy approx. 3.5 h=)
- Explosion-proof, powder-coated aluminium case
- Sampling head sterilisable
- Pre-programmed gases: Air, N₂, CO₂, Ar, O₂
- ATEX certified

Dimensions

- L 53 x H 31 x W 11cm
- Weight with sampling head: Approx. 12.5 kg
- Dimensions of transport trolley: L 62 x H 42 x W 26 cm
- Firmware:
 - 5 freely programmable volumes in the range of 1-2000 litres,
 - interactive menu, real-time clock with date and calibration
 - reminder and PC interface

Accessories

- Transport trolley (standard)
- CG calibration unit (optional)
- Additional sampling head (optional)

CAT Clean Air Technology GmbH
Heimsheimer Strasse 35
D-70499 Stuttgart
CEO : Steffen Hild

Company site : Stuttgart
Registered at district court Stuttgart (HRB18719)
Bank details : Dresdner Bank in Stuttgart
Account number : 1300 593 00 (BLZ : 800 800 00)

Phone : +49 711 365 91 90 - 0
Fax : +49 711 365 91 90 - 99
Tax ID Number : 99 066 08216
VAT ID Number : DE 192 516 706