

Приборы LAB-TECH Inspecta, Vulkano, Moisture Minder, MobileDewP

Технические характеристики

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Inspecta

Ac-Be



ANALYZER

Inspecta detects the presence of acetaldehyde (Ac version) or benzene (Be version) in PET finished or semi-finished products. The former may be present in every final product because it is generated by the PET production process, the latter as consequence of use of post consumer PET.

Inspecta is extremely ease to use and the measuring procedure is fully automatic and it takes less than 60 minutes, without requiring special skills.

The increase of sampling frequency and rapid results allow real control of the process.

Traditional gas chromatograph technology requires a sample preparation that makes difficult comparison between laboratories. Inspecta technology, allows comparable results worldwide, because of its very simple and robust procedure.



Constant process control



High level of accuracy, repeatability and reproducibility



Ease of use

Ambient temperature (°C)

5-35.

Average air temperature for working period of 24 hours (°C)

Max 30.

Utility

Compressed air and hydrogen.

Power supply (V-ph-Hz)

230-1-50 / 110-1-60.

Control system

Display 10,4" TFT colour + touch screen, membrane keyboard + touch pad-operating system: Windows.

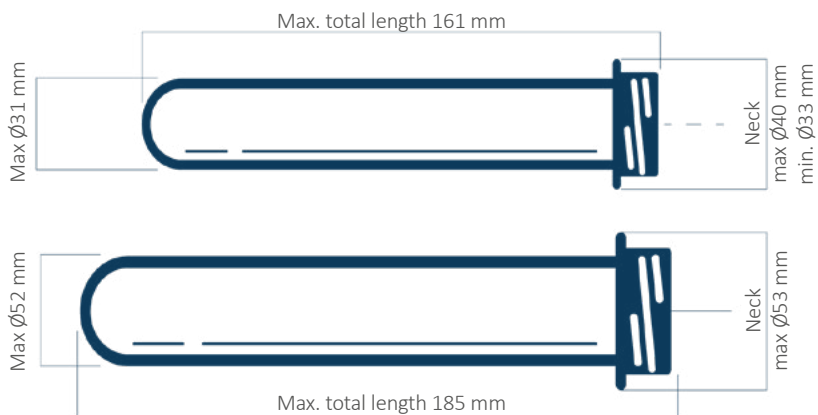


Time is a critical factor: an immediate analysis results avoids the risk of scrapping large quantities of production

Inspecta can be used to test several form factors of PET: preforms, sheet, bottles and granules

Dimensions and weight		
	Ac	Be
Dimensions W x D x H	515 x 575 x 365 mm	515 x 780 x 365 mm
Weight	35 Kg	50 Kg

Desorbers



Standard desorber (on board) for:

- Length 161 mm max
- Neck diameter from 33 to 40 mm
- Preform diameter below neck 31 mm

Increased desorber (opt) for:

- Length 185 mm max
- Neck diameter max 53 mm
- Preform diameter below neck max 52 mm

Vulkano



TOC ANALYZER

Vulkano is a portable instrument for detecting and quantifying the presence of organic carbon compounds (T.O.C. -Total Organic Carbon), in the dehumidification process air.

Post-consumer hygroscopic plastics must be dehumidified to produce new products. The process to extract moisture also extracts substances absorbed by the polymer during its previous life, the NIAS (Non Intentionally Added Substances).

The air circulating in circuits that are typically closed for energy efficiency and safety reasons is at risk of becoming saturated with organic carbon compounds and can lead to:

- oil deposition on the internal surfaces of the dehumidifier
- saturation of molecular sieves with consequent loss of functionality
- failure to extract N.I.A.S. from the treated plastic.

As the use of post-consumer plastic increases, it is advisable to use fume condensers such as Condenso and activated carbon filters such as PureTech to protect the dehumidifier and the finished product.

A portable analyser such as Vulkano offers a fast and accurate method (also adaptable to continuous measurements) for verifying the purity of the process air. It allows monitoring the saturation of the filters, indicating the relative moment of replacement.

Vulkano can also be used by any line operator with the utmost simplicity due to its intuitive interface.



Verification of contaminant removal



Maximisation of filter life and verification of its effectiveness



Easy to use



PET Preforms
& Bottles



Rigid
Packaging



Automotive
components



Technical
parts



Medical
solutions



Thermoforming
& Technical Sheets



Flexible Film



Pipes, Profiles,
Cables



Fibres &
Strapping



Recycling



Compounds

Ambient temperature (°C)

Connections

Power supply (V-ph-Hz)

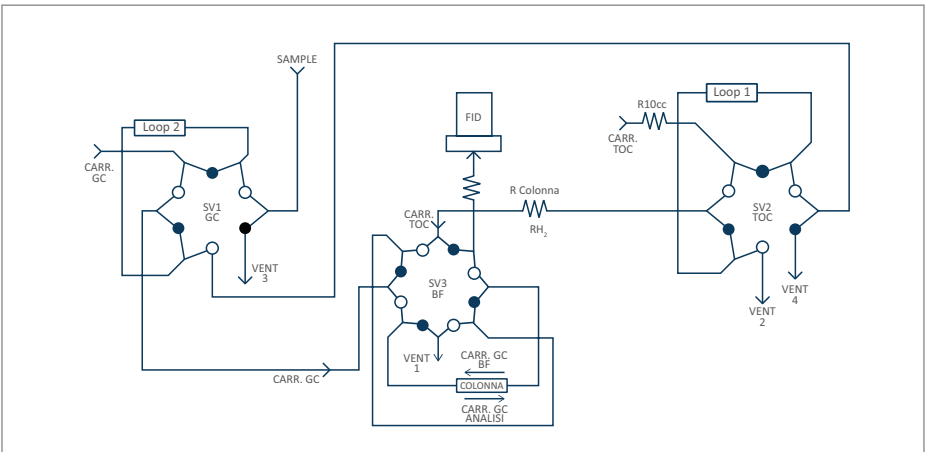
Control system

5-35.
Compressed air, hydrogen and air oxidation reactor.
230-1-50 / 110-1-60.

Display 10,4” TFT colour + touch screen, membrane keyboard + touch pad-operating system: Windows.



Clear and easy-to-use interface.



Diagnostic interface

Dimensions and weight	
	Vulkano
Dimensions W x D x H	515 x 575 x 365 mm
Weight	47 kg

Moisture Minder



REAL-TIME HUMIDITY READING

Moisture Minder is the solution for the in-line measurement of the moisture in the plastic granules. Two models are available:

- M5 designed especially for after-drying PET applications
- M100, with a multi-purpose configuration, for a wide range of polymers or for pre-drying measurements.

Moisture Minder can be used with a wide range of materials and its control includes many pre-loaded calibration curves.

It allows complete traceability and monitoring of the production process. With integration with Winfactory 4.0, the measurements of Moisture Minder can be stored up to 10 years. Users can implement a quality system with report automatically generated and almost real-time corrective actions.



Automatic, simple and reliable



Real time reading for a quick reaction



On-line analysis without needing of a sample collection



PET Preforms & Bottles



Rigid Packaging



Automotive components



Technical parts



Medical solutions



Thermoforming & Technical Sheets



Flexible Film



Pipes, Profiles, Cables



Fibres & Strapping



Recycling



Compounds

Ambient temperature (°C)

5-35.

Working conditions

Fully filled with product.

Communication interface

RS485-Modbus RTU.

Dryer integration

Genesys GP, GenesysNext GN.



Moisture Minder is extremely compact for an easy installation



In case of stand-alone installation, a local panel with touch screen is provide

Polymero	Materiale	Range Umidità min-max[%]	Range Temperature min-max[°C]
PBT	PBT 30% GF	0.005-0.05	80-120
PBT/PET GF	TECHNODUR PBT/PET GF30 2 BLACK	0.005-0.05	80-120
PC	BASF MAKROLON PC	0.01-0.05	80-120
PC	LEXAN 141R RESIN	0.01-0.05	80-120
PC	LEXAN LS2	0.01-0.05	80-120
PC	LEXAN PC 500R GR 10%	0.01-0.05	80-120
PC	LEXAN PC 141 RESIN	0.01-0.05	80-120
PC	MAIP INTELON 2407 OFALINO	0.01-0.05	80-120
PC	MAKROLON AX 2675 BLACK	0.01-0.05	80-120
PC+ABS	SABIC CYCOLOY C 1200 HF	0.005-0.05	70-110
PC+ABS	SABIC CYCOLOY E 1200 MF	0.005-0.05	70-110
PET	ARNITE A X08033 LASERTRASPARENT NATUR	0.0005-0.03	100-180
PET	PET APE 60 R/CYCLED	0.0005-0.03	100-180
PET	PET RT 5140	0.0005-0.03	100-180
PETG	EASTMAN PETG FB 501	0.01-0.05	40-70
PETG	PETG - SN 200 SKY GREEN	0.01-0.05	40-70
PETG	PTEG-FG 501 EASTMANN	0.01-0.05	40-70
POLYESTER	INVISTA POLYESTER CHIPS RT 28 FD	0.005-0.05	100-180
POLYESTER	INVISTA POLYESTER CHIPS RT 5140	0.005-0.05	100-180
PCM	BASF ULTRAFORM	0.0005-0.05	100-180

Moisture Minder control is very easy to use with a wide range of material database pre-loaded

	M5	M100
Passing section diameter (mm)	100	
Moisture reading range (ppm)	5-1,000*	100-5,000*
Temperature range (°C)	20-200	20-140
Accuracy (ppm)	± 15	± 15
Example of typical application	PET / PETG / PSU	ABS / PC /PA

*Variable range on request.

MobileDewP

The new portable Dew Point meter

Benefits

- Easily portable
- Easy to use: switch at bottom allows an immediate navigation from one page to another
- Quick to respond when connected to the process
- Cost effective performance check of small size dryers



MobileDewP is the portable sensor for measuring the DewPoint of the process air in the drying systems. For a small size dryer the installation of a dedicate DewPoint probe on board can have a big impact on the total costs of the installation; in this case MobileDewP can be the right choice: it is a portable instrument that can be easily connected to

the drying circuit in order to check periodically the performances and the efficiency of the system. MobileDewP is easily portable and can be used for many different machines, without the necessity of any preliminary setting.

It is very easy to use and the reading is immediate when connected to the process.

MobileDewP is supplied complete of everything and ready to use; the package includes: connecting pipe, power feeder and a protective case for easy and safe handling. Each instrument is tested in house and a calibration certification is included.

Measuring range	-80 °C / +20 °C
Accuracy: between +20°C and -20°C	± 1°C
Accuracy: between -20°C and -50°C	± 2°C
Accuracy: between -50°C and -80°C	± 3°C
Pressure range	-1 .. 50 bar
Protection grade	IP65
EMC compatibility	According DIN EN 61326
Dimension of the housing	76,5 x 85 x 75 mm



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