Product name:	Product code:
Headspace Gas Chromatograph for Preform Acetaldehyde Analysis	CMI-IND-0514

Description

Gas chromatograph with automatic headspace sampler and cryogenic grinder for measuring free acetaldehyde in PET preforms and bottle resin. Used by beverage and water bottle suppliers to control taste-affecting AA levels in ppm.

Technical specification

Standard Accessories

- Headspace vials and crimper
- Cryogenic grinder
- Calibration standard kit

Ground preform sample is heated in a sealed vial, and the headspace gas is injected into a capillary column with flame ionisation detection. Acetaldehyde is quantified against calibrated standards in ppm. It supports routine release of low-AA preform grades.

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Features

- Automatic headspace sampler for 12 vials
- FID detector for ppm level sensitivity
- Programmable column oven up to 350 deg C
- Cryogenic freezer mill for sample grinding
- Chromatography software with calibration curve

Technical Specifications

Method basis	ASTM F2013 (headspace AA in PET)
Detector	Flame ionisation (FID)
Detection limit	Below 0.1 ppm acetaldehyde
Oven temperature	Ambient +5 to 350 deg C
Headspace oven	40 to 200 deg C, 12 vial tray
Column	Capillary, 30 m x 0.32 mm
Carrier gas	Nitrogen or helium
Power supply	230 V AC, 50 Hz, 2.5 kVA