

Technical Data - Alab 5000

Analysis of inverted regular soft drinks with PBA-SI Generation M		
	Measuring range	Repeatability, s.d.
Density	0–3 g/cm ³	0.000001 g/cm ³
Concentration sugar	0–15 °Brix	< 0.01 °Brix
Concentration sugar fresh	0–15 °Brix	0.02 °Brix
Concentration sugar inverted	0–15 °Brix	0.02 °Brix
Degree of inversion	0–100 %	1%
CO₂	0–6 vol. (0–12 g/L) at 30 °C (86 °F)	0.005 vol. (0.01 g/L)
	0–10 vol. (0–20 g/L) < 15 °C (59 °F)	
O₂	0–4 ppm	2 ppb (in the range < 200 ppb)
pH	pH 0–14	0.02 (in the range pH 3–7)
Maximum allowed volume of packages to be handled by PFD/PFD Plus	Can: 0.5 L Glass bottle: 1 L	
Sample temperature	15–25 °C (59–77 °F)	
Sample volume per measurement	120–150 mL (approx. 20 mL per additional measuring module)	
Compressed gas:	Class 5 from ISO 8573-1	
necessary quality of air if used as compressed gas supply	max. particle size: 40 µm max. pressure dew point: +7 °C (44.6 °F)	
Compressed gas:	Purity ≥ 99.999 %	
necessary quality of nitrogen supply if Option O₂ is installed:	Class 5.0 max. particle size: 40 µm max. pressure dew point: +7 °C (44.6 °F)	
Operating pressure for PBA system	6 ±0.5 bar relative (87 ±7 psi)	
Dimensions (L x W x H) of the PBA system	495 x 700 x 670 mm (19.5 x 27.6 x 26.4 in)	
Voltage	AC 100 to 240 V, 50/60 Hz	
Power consumption	190 VA (incl. external measuring modules)	
Power inlet	according to IEC/EN 60320-1/C14, protection class I	

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Fuses	Glass tube fuses 5 x 20 mm; IEC60127-2; AC 250 V; T 5 AH
Environmental conditions (EN 61010)	Indoor use only
Ambient temperature	15–35 °C (59–95 °F)
Air humidity	10–90 % relative humidity, non-condensing
Pollution degree	2
Oversupply category	II
Altitude	max. 3000 m (9800 ft)
PBA-B Generation M Packaged Beverage Analyzer for Beer	
Output parameters	Alcohol [%v/v], Original extract [°Plato], Extract [%w/w] Density [g/cm ³], CO ₂ [g/L], Color [EBC or °ASBC] (optional) pH value (optional), Turbidity (optional), O ₂ (optional) and many other parameters
Repeatability s.d.	
Alcohol	0.01 %v/v
Original extract	0.03 °Plato
Extract	0.01 %w/w
Density	0.00001 g/cm ³ (DMA™ 4500 M) 0.000001 g/cm ³ (DMA™ 5000 M)
CO₂	0.01 g/L (0.005 Vol.)
O₂ (optional)	± 2 ppb (in the range < 200 ppb)
Color (optional)	0.1 EBC
pH value (optional)	0.02
Turbidity (optional)	0.02 EBC
Additional information	
Sample volume per measurement	120 to 150 mL
Typical measuring time	3 to 4 minutes
Compressed air supply	6 ± 0.5 bar (87 ± 7 psi)