

CB Omni Agile online elemental analyzer Bulk online elemental analysis for your process control needs

The Thermo Scientific[™] CB Omni Agile online elemental analyzer drives efficiency in your plant through enabling real-time control decisions, by identifying and responding to process variations, consistently achieving target chemistry and reducing corrective additives.

The analyzer's precedented configuration flexibility suits various applications through its modular industrial design. In addition, it's a light, easy to install analyzer, with the same industry leading performance that you have come to expect.

The real-time online elemental analyzer integrates into a material conveyor and provides a minute-by-minute elemental analysis of raw materials. The system provides a reliable and accurate means for process control to achieve consistent chemistry thus minimizing cost and improving process efficiency.



Benefits

- Sends only economically viable ore to the concentrator for processing and minimizes loss of valuable material to waste
- Blends, sorts, monitors material quality in real time which avoids continuous sampling
- Reduces process upsets and increases process throughput while consuming less energy
- Minimizes use of highest cost, additive materials

Features

- Modular industrial design
- Configurations tailored to specific application needs
- Belt widths from 600 mm (23.6 in) to 1800 mm (70.8 in), including steel corded belts
- Rapid bulk analysis, ≤ 30 sec, using PGNAA or PFTNA
- Variable tunnel heights to accommodate process conditions
- Isotope (PGNAA) OR Neutron Generator (PFTNA) configuration
- One to four large volume, Nal detectors
- Superior, robust accuracy (ABLC)
- State-of-the-art electronics
- Comprehensive, flexible user interface Omni View
- Integrated process control software
- Flexible plant connectivity

CB Omni Agile elemental analyzer

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The CB Omni Agile elemental analyzer measures and reports

Cement applications				Minerals applications				
SiO2	AI2O3	Fe2O3	CaO	Ag	Со	Mg	Si	
MgO	K20	Na2O	SO3	AI	Cr	Mn	Ti	
TiO2	Mn2O3	CI	Moisture	Au	Cu	Na	V	
				Ca	Fe	Ni	Zn	
				Cd	Hg	Ρ		
				CI	К	S		

Specifications

Physical specifications		²⁵² Cf source configu	uration	Neutron generat	Neutron generator configuration		
Belt size	mm in	600-1200 24-48	1400-1800 54-72	600-1200 24-48	1400-1800 54-72		
Length of unit	mm in	2450 96	3059 120	2450 96	3059 120		
Approximate width	mm in	2165 85	2755 108	2165 85	2755 108		
Approximate height	mm in	1685-1813 66-71	1838-1966 72-77	1716-1966 68-77	1838-2116 72-83		
Weight	kg Ibs	2833-3079 6233-6774	3944-4302 8677-9464	4076-4315 8967-9493	5463-5805 12019-12771		
Standard physical specifications							
Troughing angle		35°					
Electronics enclosure		IP65 enclosure 600 mm width x 800 mm height x 300 mm depth (24 in x 32 in x 12 in)					
Electronics connection to analyzer		Standard 25-meter cable provided					
Operating temperature		-25 °C to +55 °C (-13 °F to +131 °F)					
Electrical specifications							
Electronics enclosure		230 VAC 50 or 60 Hz, 16 Amps 3 wire (L1, N, GND)					
Operator console		120 VAC 50 or 60 Hz, 5 Amps 1 Phase or 230 VAC 50 or 60 Hz, 2.5 Amps 1 Phase					
Communications							
Electronics enclosure to operator console maximum (customer supplied)		Fiber Optic 62.5/125 multimode (minimum of 2 fibers) 2000 meters maximum (customer supplied) (longer distances optionally available)					
Operator console to customer		OPC client/server link, major communication protocols, ODBC					
Offsite (remote) communication		Ethernet connection to Internet					
Neutron source		Either a neutron generator or Cf-252, with amounts determined by application and accuracy requirements					
Neutron generator (optional)							
Electronics enclosure dimensions		240 mm width x 340 mm height x 160 mm x depth (9 in x 13 in x 6 in)					
Electronics enclosure weight		Approximately 18 kg (40	0 lb)				
Related products							
Raw Mix Optimization Software (RAMOS)						
Pre-Blending Optimization Software (PRE	BOS)						
AccuLink – Automatic Calibration Softwa	re						





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