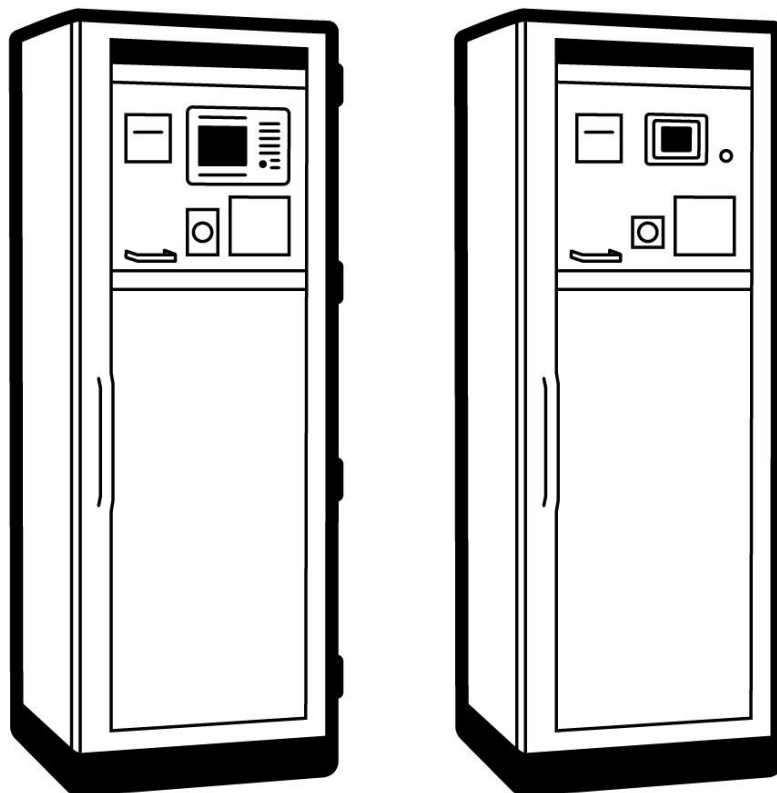




GT90 Dioxin+ (standard and compact versions)

GT90 Dioxin+ is a fully automated MCERTS certified solution for isokinetic sampling of dioxin emissions, fulfilling all requirements of the dioxin measurement standard EN1948.

System specifications

Sampling principle	Dilution method according to EN1948-1 and CEN/TS 1948-5
Isokinetic control	Directly at each physical sampling point
Sampling interval	2 hours to 6 weeks (I-TEQ PCDD/F usually 2 or 4 weeks)
Measuring range	0.01 to 100 ng I-TEQ/m ³ (with sampling interval of 6 hours) 0.0001 to 10 ng I-TEQ/m ³ (with sampling interval of 6 weeks)
Power supply	Standard version: 400 VAC, 50 Hz, 3 x L+N+PE Option: 400 VAC, 50 Hz, 3 x L+(N/PE) (common neutral/ground) (L=phase, N=neutral, PE=protective earth) Compact version: 1 x 230 VAC, 50 Hz, 1 x L+N+PE Options: 230 VAC, 50 Hz (configurations of power supply L/N/PE and required customer-side circuit breakers may depend on heated sample line length)
Heated sampling probe	Standard version: Two zero-pressure probes Compact version: One zero-pressure probe Material: Titanium
Heated line	Length: 2-70 m (chosen according to site)
Filter System	2-stage dry solid filters
Signals and connections	
Input	Analog input(s): Flue gas oxygen (O ₂) Other contact(s): External standby, "plant in operation"
Output	Other contact(s): 3 device status contacts Options: 2 analog signals 8 digital signals
Remote control	Internet TCP/IP, option for cellular connectivity
Enclosure	Dimensions (H x W x D): Control unit 1710 x 620 x 620 mm (68/25/25 inches) Outer sampling probe unit 600 x 520 x 280 mm (24/21/11 inches) (outside the stack) Inner sampling probe unit Depends on length of probes (inside the stack) Outdoor box for sampling probe unit protection 760 x 600 x 350 mm (30/24/14 inches) Material: Steel IP class: IP54

Weight	Standard version:	Control unit	approximately
	180 kg		
	kg	Sampling probe unit	approximately 25
	Compact version:	Control unit	approximately 170 kg
Product compliance	kg	Sampling probe unit	approximately 20
	CE, UKCA		

Sample gas conditions

Sample gas temperature	Up to 250 °C
Sample gas humidity	Up to 350 g/m ³
Sample gas dust content	0 – 20 mg/m ³ (up to 150 mg/m ³)
Sample gas velocity	2 – 20 m/s

Operating conditions

Ambient temperature	Control unit	0 – 45 °C
	Sampling unit	-10 – 55 °C
Ambient relative humidity	Control unit	10 – 90 % (non-condensing)
	Sampling unit	10 – 95 % (non-condensing)

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