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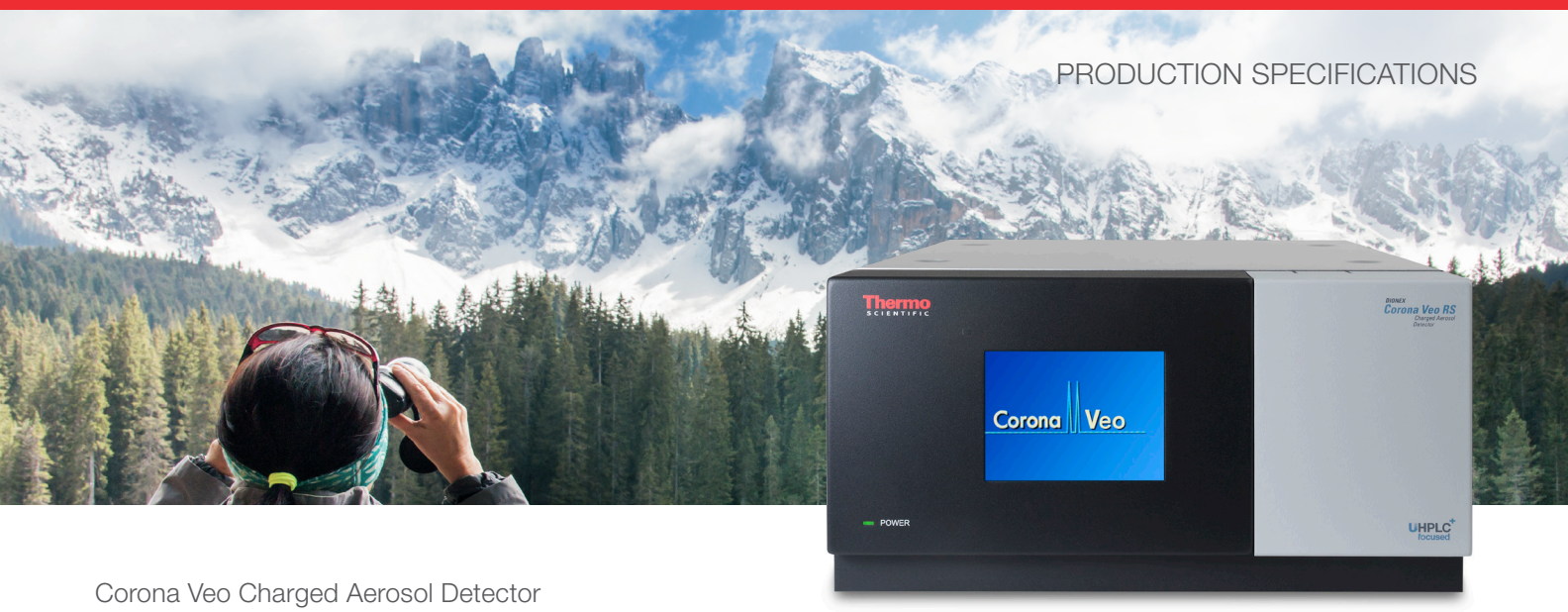
PRODUCTION SPECIFICATIONS



Corona Veo Charged Aerosol Detector

Discover what you're missing

Benefits

- Near universal detection
- Fast data sampling ensures full compatibility with UHPLC
- Improved semivolatile sensitivity with the FocusJet concentric nebulizer
- Adjustable evaporation temperature for improved analyte response
- Intuitive operation
- Integration with any HPLC/UHPLC system

We are dedicated to providing innovative solutions for analytical laboratories. To meet these demands we deliver premier instrumentation across our complete portfolio, including new products designed to deliver top performance and productivity for today's most difficult chromatography challenges. Our instruments and automation systems provide the answers that allow you to advance your work and achieve success.

The Thermo Scientific™ Corona™ Veo™ detector represents the evolutionary refinements in instrumentation design that uses the widely acknowledged charged aerosol detection (CAD) technology for liquid chromatography; including traditional HPLC, UHPLC, and micro LC.

The Corona Veo charged aerosol detector delivers performance that other LC detectors simply cannot match. Consistent response independent of analyte chemical structure is a unique characteristic of charged aerosol detection, which lets you estimate relative amounts even without standards. Charged aerosol detection technology helps you see analytes that other systems fail to detect. Any nonvolatile and most semivolatile analytes with or without a chromophore can be measured using this technology. With a predictable response, the Corona Veo detector will quickly become your first choice for HPLC and UHPLC analyses.

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The Corona Veo detector can be used with UHPLC technology, such as Thermo Scientific™ UltiMate™ 3000 LC systems, combining all the benefits of charged aerosol detection with the high speed and increased resolution of UHPLC. Whichever configuration you choose, you will get a highly integrated solution with optimized fluidic connections and single-point intelligent control through Thermo Scientific™ Chromeleon™ CDS (chromatography data system) software.

Specifications

Description	Corona Veo Detector	Corona Veo RS Detector
Operating mode	Charged aerosol detection	
Nebulization	FocusJet concentric flow design	
Mobile phase flow rate	0.2–2.0 mL/min	0.01–2.0 mL/min
Wetted materials	Stainless steel (type 316), Nitronic® 60 stainless steel, PEEK, Simriz®, aluminum, fused silica, and PTFE: Valcon H, Valcon E (Corona Veo RS only)	
Digital data collection rate (max.)	100 Hz	200 Hz
Digital noise filtering	4th order low-pass Bessel	
Optional analog signal output	0–1 V DC (field installed)	
Full scale analog output range	1 pA to 500 pA in 1-2-5 sequence	
Filter time constants	Selectable in numerical sequence (1-2-5 increments)	
Standalone control interface	Integrated color LCD touch screen	
Evaporation temperature	Select: 35 or 50 °C	Settable range: Ambient +5 to +100 °C
Warm-up time	<30 min to 35 °C evaporation T	
Integrated stream switching	Not available	TTL controlled, 6-port, 2-position valve
Inlet gas supply	Compressed air or nitrogen Inlet pressure 70–80 psig (482–551 kPa) Gas consumption 4 L/min	
Gas pressure control	Manual	Electronic
PC connection	Available detector functions controllable via USB 2.0 through Chromeleon CDS (cable provided)	
Rear interface	AC plug, power switch, USB port, digital I/O (four TTL inputs, two relay outputs)	
Dimensions (h × w × d)	22.9 × 44.5 × 55.9 cm (9 × 17.5 × 22 in.)	
Weight	14.3 kg (31.5 lbs.)	
Power requirements	100/240 VAC, 50/60 Hz, 100 VA	
Environmental temperature range	15 to 35 °C at 12 to 80% RH, non-condensing	
Safety certifications	UL/IEC 61010-1, 3rd Edition FCC Part 15/ICES-003 class A	

Ordering information

Detector Modules	Part Number
Corona Veo charged aerosol detector	5081.0010
Corona Veo RS charged aerosol detector with electronic gas regulation and automated stream-switching	5081.0020
Options	**Part Number**
Analog signal output kit for Corona Veo detector	6081.0010
Adjustable analytical flow splitter (1:1 to 1:20)	70-6337

Find out more at **www.thermofisher.com/CAD**

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