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Corona CAD Detector 70-6186A Performance Specifications

General Operating Specifications

Operating Mode: Charged Aerosol Detector

Mobile Phase Flow Rate: Up to 2 mL/min

Wettable Surfaces: 316 stainless steel

Full Scale Output Range: 1 pA to 500 pA in 1-2-5 sequence

Filter Time Constants: None, Low, Medium, High

Noise Specification: < 750 fA peak to peak (20% methanol/80% water)

Signal Output: 0V to 1V DC

Output Resolution: 0.12 μ V at 1V full scale

Maximum Sampling Rate: 3.5 samples/sec

Output Offset: \pm 50% of the selected current range in 1% steps

Event Marker: Triggered by keypad, timed operation or RS232 control, width, height, polarity

Autozero: Triggered by front panel keypad, rear panel contact closure, timed operation or RS232 control

Function Keys: Autozero, Event Marker, Gas On/Off

RS232 Interface Capability: Full parametric instrument control

Method Storage: Up to 25 methods (any combination of Fixed Mode and Timeline)

Settable Temperature Range (Thermal Organizer Option): (Ambient +5°) to 60°C

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Temperature Stability (Thermal Organizer Option): $< \pm 0.5^{\circ}\text{C}$

Warm-up Time (Thermal Organizer Option): < 30 minutes (typically)

Temperature Accuracy (Thermal Organizer Option): $\leq \pm 0.5^{\circ}\text{C}$

Nebulizer Heater: Factory set at 30°C (CoronaPlus CAD detector only)

Timeline Specifications	
Programmable Changes:	Selectable at times from 0 to 9999.99 minutes in 0.01 minute increments
Programmable Events:	Gas (on/off), Set Output Contact Closures (4), Autozero, Filter, Marker, Current Range, Hold, Loop, Reset Parameters
Program Repeats:	1 to 9999 using Loop command
Program Start:	Via front panel keypad or rear panel contact closure
External Device Control:	Control of up to 4 external devices via contact closures

External Requirements	
Power:	100/240 VAC, 50/60 Hz, 100 VA
Gas:	Nitrogen Gas must not contain volatile hydrocarbons (e.g., compressor oils)
Gas Operating pressure:	60 psi (4.14bar) into Gas Conditioning Module
Operating gas flow rate:	approximately 4 L/min

Physical Specifications	
Dimensions: Corona Module	20.5" (L) x 9" (W) x 11.25" (H), (52.5 cm x 23 cm x 28.6 cm)
Dimensions: Organizer Module	18.5" (L) x 9" (W) x 5.3" (H), (47 cm x 23 cm x 13.5 cm)
Weights: Corona Module	22 lbs (10 kg)
Weights: Organizer Module	7.6 lbs (3.4 kg)
Weights: Thermal Organizer Module	9.1 lbs (4.0 kg)

Environmental Specifications	
Operating Temperature:	10-35°C
Humidity:	Maximum 80% RH (35°C), non-condensing
Storage Temperature:	-10 to 60°C

Corona Accessories	
Corona Accessory Kit	70-6225A
Thermal Organizer Module	70-5499TA
Organizer Module	70-5499
Nitrogen Generator	70-6003
Corona Replacement Parts	Part Number
Gas Filter Assembly, HEPA/Carbon, Corona	70-6224
Corona Waste Bottle Cap Assembly, Solvent Compatible	(old style) 70-7117
Corona Waste Bottle Cap Assembly, Solvent Compatible	(new style) 70-7754
Bottle, 5.0 Liter Waste (Compatible with 70-7754 only)	70-7751
FFKM Gasket, Waste Bottle Cap	70-7785
Filter-HPLC Inline	70-4538
Filter-SS Replacement Frits	70-4539
Gas Filter Assembly, HEPA/Carbon, Corona	70-6224
Gas Exhaust Hose Assembly, Corona	70-6261
Drain/Vent Tubing Assembly, Corona (old style)	70-6266A
Drain/Vent Tubing Assembly, Corona (new style)	70-7115
Gas Inlet Tubing ¼" (specify length)	70-6260
Tubing Cutter (for new style Drain/Vent tubing)	70-7112
¼" Stainless Nut and Ferrule Set (Drain/Vent Tubing)	both old and new style 70-7120
Cables	Part Number
BNC to Bare Wire Cable (Signal out to recording device)	70-1776
BNC Male to Double Binding Post Adapter	70-0219
Bare Wire to Bare Wire (I/O Connections)	70-4850
Cable RS232, Corona to Computer	70-1743
Cable, Interface Thermal Organizer to Corona	70-5595

Manuals	Part Number
Operating and Maintenance Manual	70-6258
Fuses	Part Number
Fuse, 1.0 amp (for 100/240 V operation), (2 fuses required)	70-0751
Organizer Module Spare Parts	Part Number
Corona Organizer Accessory Kit (Table C-1)	70-5651
Thermal Organizer Module Spare Parts	Part Number
Corona Thermal Organizer Accessory Kit	70-5651T
Standard Column Clamp Assembly (15 cm)	70-5366
Short Column Clamp Assembly (5 cm)	70-5365
Long Column Clamp Assembly (25 cm)	70-5367
Cable, Interface Organizer to Corona	70-5595A
Test Standards and Guard Column	Part Number
Caffeine Standards Set, 1.8 mL	70-6565
Guard Column	70-7098
Nitrogen Gas Supply	Part Number
Maintenance Kit, Nitrogen Generator	70-6230
Filter-PVC 0.5µm, 47mm; 5/pk (for Gas Filter Holder)	70-4507

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