

## Physical Specifications

**Table 1 Physical Specifications**

Type	Specification	Comments
Weight	14.7 kg (32.4 lbs)	
Dimensions (height x width x depth)	180 x 396 x 436 mm (7.1 x 15.6 x 17.2 inches)	
Line voltage	100 – 240 V~, ± 10 %	Wide-ranging capability
Line frequency	50 or 60 Hz, ± 5 %	
Power consumption	80 VA / 70 W	
Ambient operating temperature	4–55 °C (39–131 °F)	
Ambient non-operating temperature	-40 – 70 °C (-40 – 158 °F)	
Humidity	< 95 % r.h. at 40 °C (104 °F)	Non-condensing
Operating altitude	Up to 3000 m (9842 ft)	
Safety standards: IEC, EN, CSA, UL	Installation category II, Pollution degree 2	For indoor use only.
ISM Classification	ISM Group 1 Class B	According to CISPR 11

## Performance Specifications

**Table 2 Agilent 1260 Infinity II Refractive Index Detector (G7162A) Performance Specifications**

Type	Specification
Detection type	Refractive Index
Refractive index range	1.00 – 1.75 RIU, calibrated
Measurement range	$\pm 600 \cdot 10^{-6}$ RIU
Optical zeroing	Digitally via software, manually via set screw
Optics temperature control	5 °C above ambient to 55 °C
Sample cell	Volume: 8 $\mu$ L Maximum pressure: 5 bar (0.5 MPa) Maximum flow rate: 5 mL/min
Valves	Automatic purge and automatic solvent recycle
Volumes	Inlet port to sample cell 62 $\mu$ L, inlet port to outlet port 590 $\mu$ L
Liquid contact materials	316 stainless steel, PTFE and quartz glass
pH range	2.3 – 9.5
Performance specifications	Short term noise: $< \pm 1.25 \cdot 10^{-9}$ RIU Drift: $< 200 \cdot 10^{-9}$ RIU/hr
Time programmable parameters	Polarity, peak width
Maximum data rate	74 Hz
Detector zero	Automatic zero before analysis
Instrument Control	Lab Advisor B.02.07 or above LC and CE Drivers A.02.12 or above
Local control	Agilent Instant Pilot (G4208A)
Analog outputs	Recorder/integrator: 100 mV or 1 V, output range selectable, one output
Communication	LAN, Controller Area Network (CAN), Extended Remote Interface (ERI): ready, start, stop and shut-down signals

## Site Requirements and Specifications

### Performance Specifications

**Table 2 Agilent 1260 Infinity II Refractive Index Detector (G7162A) Performance Specifications**

Type	Specification
Safety and maintenance	Extensive diagnostics, error detection and display, leak detection, safe leak handling, leak output signal for shutdown of pumping system. Low voltages in major maintenance areas.
GLP	Early maintenance feedback (EMF) for continuous tracking of instrument usage with user-selectable limits and feedback messages. Electronic records of maintenance and errors. Automated operational qualification/performance verification (OQ/PV).
Housing	All materials recyclable

#### NOTE

Based on ASTM method E-1303-95 Practice for Refractive Index Detectors used in Liquid Chromatography. Reference conditions; optics temperature 35 °C, response time 4 s, flow 1.0 mL/min LC-grade Water, restriction capillary, column compartment temperature 35 °C, Agilent on-line degasser (e.g. G4225A), pump and thermostatted column compartment. Instrument equilibrated for 2 hours.