

# Agilent 1260 Infinity II Diode Array Detector WR (G7115A)

## Physical Specifications

**Table 37** Physical Specifications

| Type                                   | Specification                                    | Comments                |
|--|--|-------------------------|
| Weight                                 | 12 kg (26.5 lbs)                                 |                         |
| Dimensions<br>(height × width × depth) | 140 x 396 x 436 mm<br>(5.5 x 15.6 x 17.0 inches) |                         |
| Line voltage                           | 100 – 240 V~, ± 10 %                             | Wide-ranging capability |
| Line frequency                         | 50 or 60 Hz, ± 5 %                               |                         |
| Power consumption                      | 110 VA / 100 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)                           |                         |
| Non-operating altitude                 | Up to 4600 m (15092 ft)                          | For storing the module  |
| Safety standards:<br>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 38** Performance specifications G7115A

| Type  | Specification                                  | Comments  |
|---|--|---|
| Detection type                                      | 1024-element photodiode array                  |   |
| Light source  | Deuterium and tungsten lamps                   | The UV-lamp is equipped with RFID tag that holds lamp typical information.    |
| Data rate   | up to 120 Hz                                   |   |
| Wavelength range                                    | 190 – 950 nm                                   |   |
| Short term noise (ASTM) Single and Multi-Wavelength | $< \pm 0.7 \cdot 10^{-5}$ AU at 254 and 750 nm |   |
| Drift   | $< 0.9 \cdot 10^{-3}$ AU/h at 254 nm           |   |
| Linear absorbance range                             | $> 2$ AU (5 %) at 265 nm                       |   |
| Wavelength accuracy                                 | $\pm 1$ nm                                     | Self-calibration with deuterium lines, verification with holmium oxide filter |
| Wavelength bunching                                 | 1 – 400 nm                                     | Programmable in steps of 1 nm   |
| Slit width  | 1, 2, 4, 8, 16 nm                              | Programmable slit   |
| Diode width   | $< 1$ nm                                       |   |

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| Type              | Specification   | Comments  |
|-------------------|---|---|
| Flow cells        | <p>Standard: 13 <math>\mu</math>L volume, 10 mm cell path length and 120 bar (1740 psi) pressure maximum</p> <p>Standard bio-inert: 13 <math>\mu</math>L volume, 10 mm cell path length and 120 bar (1740 psi) pressure maximum</p> <p>Semi-micro: 5 <math>\mu</math>L volume, 6 mm cell path length and 120 bar (1740 psi) pressure maximum</p> <p>Micro: 2 <math>\mu</math>L volume, 3 mm cell path length, 120 bar (1740 psi) pressure maximum</p> <p>Semi-nano: 500 nL volume, 10 mm cell path length and 50 bar (725 psi) pressure maximum</p> <p>Nano: 80 nL volume, 6 mm cell path length and 50 bar (725 psi) pressure maximum</p> <p>High pressure: 1.7 <math>\mu</math>L volume, 6 mm cell path length and 400 bar (5800 psi) pressure maximum</p> <p>Prep SST: 3 mm cell path length and 120 bar (1740 psi) pressure maximum</p> <p>Prep Quartz: 0.3 mm cell path length and 20 bar (290 psi) pressure maximum</p> <p>Prep Quartz: 0.06 mm cell path length and 20 bar (290 psi) pressure maximum</p> <p>SFC Flow Cell: Light path 10 mm, Pressure Rating 400 bar, Internal Volume 13 <math>\mu</math>L</p> <p>SFC Flow Cell LD: Light Path 3 mm, Pressure Rating 400 bar, Internal Volume 2 <math>\mu</math>L</p> | <p>All flow cells are equipped with RFID tags that hold cell typical information.</p> <p>pH range 1.0 – 9.5 (12.5 solvent dependent with bio-inert version)</p> |
| Time programmable | <p>Wavelength, polarity, peak width, lamp bandwidth, autobalance, wavelength range, threshold, spectra storage mode</p>   |   |

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| Type                   | Specification  | Comments   |
|------------------------|--|--|
| Spectral tools         | Data analysis software for spectra evaluation, including spectral libraries and peak purity functions  |  |
| Instrument Control     | Lab Advisor B.02.08 or above<br>LC and CE Drivers A.02.14 or above   | For details about supported software versions refer to the compatibility matrix of your version of the LC and CE Drivers |
| Local control          | Agilent Instant Pilot (G4208A)   | B.02.20 or above   |
| Analog outputs         | Recorder/integrator: 100 mV or 1 V, output range 0.001 – 2 AU, two outputs   |  |
| Communications         | Controller-area network (CAN), USB<br>Extended Remote Interface (ERI):<br>ready, start, stop and shut-down signals   |  |
| Safety and maintenance | Extensive diagnostics, error detection and display (through control module and ChemStation), leak detection, safe leak handling, leak output signal for shutdown of pumping system. Low voltages in major maintenance areas.   |  |
| GLP features           | RFID for electronics records of flow cell and UV lamp conditions (path length, volume, product number, serial number, test passed, usage)<br>Early maintenance feedback (EMF) for continuous tracking of instrument usage in terms of lamp burn time with user-setable limits and feedback messages. Electronic records of maintenance and errors. Verification of wavelength accuracy with built-in holmium oxide filter. |  |

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| Type    | Specification   | Comments |
|---------|---|----------|
| Housing | All materials recyclable.   |          |
| Others  | Second generation of Electronic temperature control (ETC) for the complete optical unit |          |