

# Agilent 1260 Infinity Refractive Index Detector

## Features, Technical Details, Specifications and Ordering Details



### High sensitivity and robust detection

The Agilent 1260 Infinity Refractive Index Detector (RID) is the ideal detector for fast and reliable LC results when routinely analyzing non-UV absorbing substances, such as carbohydrates, lipids and polymers. The 1260 Infinity RID is also the detector of choice for gel permeation chromatography (GPC) or size exclusion chromatography (SEC).

### Features

- Minimum baseline noise results in excellent sensitivity for low limits of detection.
- Unmatched thermal and electronic stability for consistent, reproducible results. Electronic temperature regulation maintains a steady optical unit temperature of up to 55 °C.
- Thermal design allows initial setup in typically less than two hours. Warm-up of the module is generally less than one hour for fast startup.
- Optimum light level, adjusted automatically to compensate for lamp degradation and flow cell staining.
- Recycle valve that can be switched on to keep the system at operating conditions, avoiding warm-up time and saving solvent.
- User-settable purge and wait times enables automatic purging of the reference flow cell.
- Convenient front access for inspection and maintenance of tubing and valves.
- Early Maintenance Feedback (EMF), with user-settable limits for continuous tracking of the reference flow cell purging.
- Extensive diagnostics, error detection and display with Instant Pilot controller and Agilent Lab Advisor software.

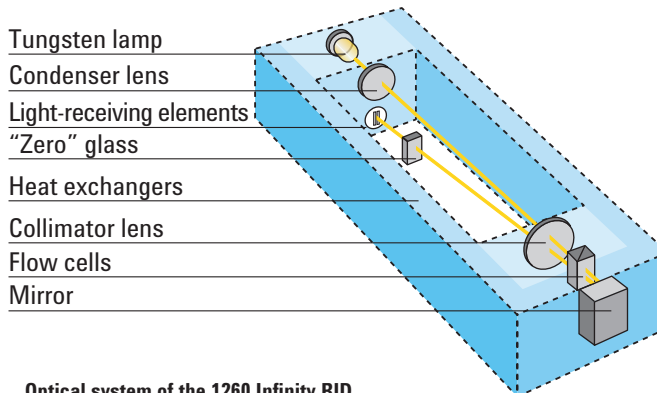


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## Technical Details – Agilent 1260 Infinity Refractive Index Detector

### Unmatched stability for reproducible results

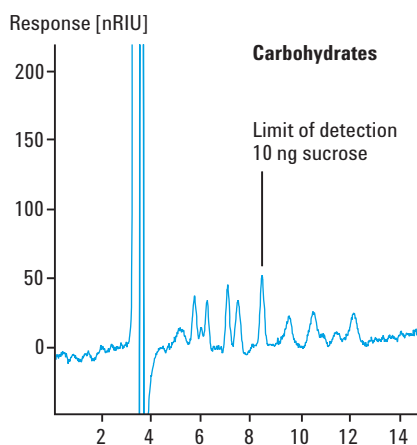
Key elements of the 1260 Infinity refractive index detector is the optimum thermal design and the sensitive optics. Countercurrent heat exchangers keep the optical unit – and the flow cells- at constant temperature. The optimum light level is adjusted automatically to compensate for lamp degradation and flow cell staining.



Optical system of the 1260 Infinity RID.

### Excellent sensitivity for low limits of detection

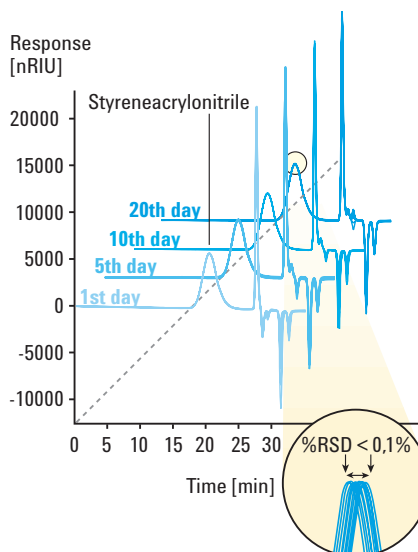
Minimum baseline noise enables higher signal to noise. Low limits of detection allow you to inject small amounts of sample. You save sample preparation time and extend column life.



Carbohydrate analysis with LOD of 10 ng sucrose.

### Excellent precision

An overlay of 10 consecutive runs per day shows the remarkable intra- and interday retention-time precision achieved with the Agilent 1260 Infinity GPC-SEC system.



1260 Infinity GPC SEC Analysis system with < 0.1 % RT precision.

## Specifications – Agilent 1260 Infinity Refractive Index Detector

Specifications: Agilent 1260 Infinity Refractive Index Detector (G1362A)	
<b>Detection type</b>	Deflection method
<b>Short-term noise</b>	$\pm 2.5 \times 10^{-9}$ RIU
<b>Drift</b>	$< 200 \times 10^{-9}$ RIU/h
<b>Refractive index range</b>	1.00–1.75, calibrated
<b>Flow cell</b>	8 $\mu$ L, 5 bar pressure maximum
<b>Temperature control</b>	Ambient +5 °C to 55 °C
<b>pH range</b>	2.3–9.5
<b>Time programmable</b>	Polarity, peak width
<b>Zero adjustment</b>	Automatic zero
<b>Valves</b>	Automatic purge and automatic solvent recycle.
<b>Data rate</b>	Up to 37 Hz
<b>Analog output</b>	Recorder/integrator: 100 mV or 1 V, with offset adjustment, RIU range selectable.
<b>Communications</b>	Local Area Network (LAN), Control Area Network (CAN), RS-232, APG remote, remote ready, start and shutdown signals.
<b>Safety and maintenance</b>	Extensive diagnostics, error detection and display leak detection, safe leak handling, leak output signal for shutdown of pumping system, low voltage in major maintenance areas.
<b>GLP</b>	Early maintenance feedback (EMF) for continuous tracking of instrument usage with user-settable limits (purge interval) and feedback messages. Electronic records of maintenance and errors, automated OQ/PV procedures.

## Ordering Details – Agilent 1260 Infinity Refractive Index Detector

Description	Product Number
<b>Agilent 1260 Infinity Refractive Index Detector</b> Includes 8 $\mu$ L flow cell.	G1362A
<b>Delete LAN card option</b>	#690

[www.agilent.com/chem/1200](http://www.agilent.com/chem/1200)

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