

COOL AIR

(763) 205-0844 INCORPORATED

Ammonia Leak Detection Systems

1544 134th Avenue NE
Ham Lake, Minnesota 55304

Cool Air Incorporated's Electrochemical Sensor Specifications for part numbers:

NH3-420-EC

NH3-50-EC

NH3-Watchman-EC

Cross Sensitivity Data: Table1 shows the typical response to interference gases.

Gas	Concentration (ppm)	Output signal (ppm NH3 equivalent)
Hydrogen Sulfide	25	22
Carbon Dioxide	5000	0
Carbon Monoxide	100	0
Hydrogen	1000	0
Isobutene	100	0
Ethanol	200	<1
Ammonia	100	100

- Technology advancements
 - Better electrochemical technology
 - Better electronics and software for input processing
- Retrofittable to any Cool Air Inc leak detector in the field today (some older detectors may require a new control board)
- New detectors (shipped after August 1st, 2018) will be field selectable making a technology change in the field accomplished in mere minutes
- Able to remote the sensor up to 500 feet from the detector
- Our new sensor
 - Sensing range 0 to 500ppm
 - Operating temperature -10 degrees F to 110 degrees F
 - 15 ~ 90% RH non-condensing
 - Linearity: +/- 1% of full-scale
 - Repeatability: +/- 1% of full-scale
 - Response Time:
 - T50 = less than 20 seconds
 - T90 = less than 40 seconds
 - Accuracy +/- 1% of value, but dependent on calibration bottle accuracy (typ. +/- 2%) and time since last calibration
 - Excellent durability to NH3 exposure
 - Long life
 - Stable baseline (Baseline Shift (-20 ~ 40°C) < 3 ppm
 - Temperature compensated design
 - Three-year warranty
 - Same maintenance recommendations

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