

Model LBW-50 Ammonia Leak Detector

*A must for your ammonia
refrigeration plant*

COOL AIR
INCORPORATED



Your dependable, low cost, low maintenance, 24-hour watchman

Designed for use in industrial freezers, coolers, production areas, engine rooms, and dock areas.

Early warning to your employees.

Quick response to leaks even during off-production hours.

Solid state circuitry. No radioactive elements. All components U.L.

Versatile in its applications.

Automatically start up or shut off selected auxiliary equipment during plant emergency.

Saves money. A 5 to 15% reduction in annual insurance premiums as well as additional insurance coverage are possible.

Meets OSHA requirements.



Certification Pending

These essential features in one detector:

- Affordable
- Dependable – virtually maintenance free
- Detects concentrations of ammonia as low as 25 PPM. Field adjustable from 30 to 800 PPM.
- Normally open, normally closed contacts for your alarm system
- Extra set of contacts for auxiliary equipment
- 115 or 230 VAC, 50/60 Hz, 16 VAC, or 24 VDC.
- One year warranty
- Service switch for servicing without alarming

OPTIONS:

- Back-up battery
- Stainless steel washdown tube
- Remote alarm light & horn unit
- Remote sensor up to 500 ft.

Ammonia Leak Detector Model LBW-50 guide specifications

Specifications

- Ammonia detection sensitivity:** 25 to 800 ppm
- Ammonia sensor:** Metal oxide semiconductor. 833 mW integral heater. Alumina ceramic base. 100 mesh SUS 316 double gauge. Flame arrestor.
- Relays:** Alarm, pre-alarm, and auxiliary (auxiliary relay operates at same time as alarm relay). 5A, form C (SPDT), normally-open, normally-closed, de-energized in normally-open state.
- Outputs:** Contacts for: alarm, pre-alarm, and auxiliary relays. Conforms to S50.01 ratings, Type 2L and Type 2H.
- Operating temperature:** -50°F to 125°F
- Operating humidity:** 5% to 95% RH, non-condensing
- Power requirements:** 115 or 230 VAC, 50/60 Hz, 16 VAC, or 24 VDC.
- Dimensions:** 7-1/2"H x 7-1/2"W x 4-1/2"D
- Weight:** 4 lbs.
- Enclosure:** NEMA 4X rated, UL listed, CSA, IEC, IP66
- Options:**
- Back-up battery
 - Stainless steel washdown tube
 - Remote alarm light & horn unit
 - Remote sensor up to 500 ft.

Suggested Specifications Text

Ammonia (NH₃) Vapor Detector System

Provide ammonia leak detector(s), model LBW-50, as manufactured by Cool Air Incorporated, St. Paul, Minnesota.

Ammonia leak detector(s) shall be wall-mounted and have a solid-state instrument panel and sensor capable of sensing ammonia refrigerant concentrations of 25 to 800 parts per million. A field adjustable range beginning at 30 parts per million.

Detector(s) shall not contain radioactive substances.

Detector(s) shall also have: an early warning alarm system, front-panel LED indication providing ammonia concentration and contacts for operating auxiliary equipment.

Detector(s) shall be capable of initiating a supervised alarm, resulting in corrective action.

Optional back-up battery, remote ammonia sensor, remote alarm light & horn unit, and stainless-steel washdown tube shall be available from the detector manufacturer.

115 or 230 VAC, 50/60 Hz, 16 VAC, or 24 VDC shall be provided for each detector.

Warranty

The LBW-50 comes with a 12-month warranty on workmanship from the time of sale.



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