

COOL AIR
INCORPORATED

Ammonia Leak Detector

Model LBW-RLV



A rugged, dependable unit for continuous monitoring of ammonia refrigeration gas in safety relief vent systems

Designed for use in common safety relief vent systems

Early warning to your employees.

Quick response to leaks even during off-production hours.

Solid state circuitry. No radioactive materials. All components U.L. listed.

Versatile in its applications.

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

Saves money. A potential 5 to 15% reduction in annual insurance premiums. Check with your insurance carrier.

Meets industry requirements.

These essential features in one detector:

- Affordable
- Dependable – virtually maintenance free
- Capable of detecting ammonia concentrations of 25 PPM to 800 PPM. Factory set Early Warning (pre-alarm) setpoint is set @ 250 PPM. (non-field adjustable) & Alarm setpoint is set @ 500PPM (field-adjustable to 800 PPM).
- Energized normally open, normally closed dry contacts for your automation and/or alarm system.
- Extra set of dry-contacts for auxiliary equipment.
- 115/230 VAC, 50/60 Hz, 16 VAC, or 24 VDC
- Service mode for avoiding nuisance alarms during servicing, testing, or calibration.
- Standard 12-month warranty.
- Made in the USA.

Options:

- Back-up battery
- Remote alarm light & horn unit (indoor use only)

Ammonia Leak Detector Model LBW-RLV Guide Specifications

Specifications

Ammonia detection sensitivity: 25 to 800 ppm

Display: Progressive LED light tree

Controls: Service mode switch, Test button

Ammonia sensor: Metal oxide semiconductor. 833 mW integral heater. Alumina ceramic base. 100 mesh SUS 316 double gauge. Flame arrestor.

Relays: Qty. (3) 5A, form C (SPDT), normally-open, normally-closed; Early Warning (pre-alarm), Alarm, & Auxiliary (auxiliary relay operates at same time as alarm relay); Normal mode: energized in normally-open/closed state.

Outputs: Isolated dry-contacts for: Early Warning, Alarm, & Auxiliary relays.

Operating temperature: -50°F to 125°F

Operating humidity: 5% to 95% RH, noncondensing

Power requirements: 115/230 VAC, 50/60 Hz; 16 VAC, or 24 VDC

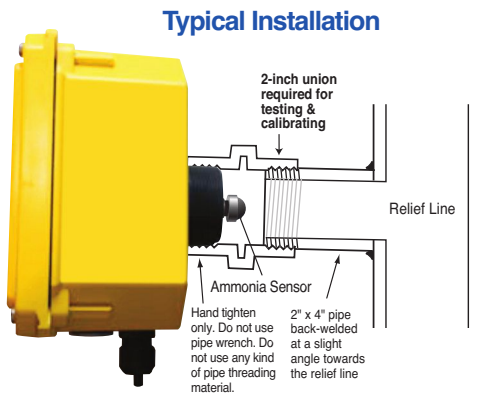
Outside Dimensions: 7 1/2" H x 7 3/4" W x 4 1/4" D

Weight: 4 lbs.

Enclosure: Custom safety yellow, NEMA 4X rated, UL listed, CSA, IEC, IP66, with viewing window.

Options:

- Back-up battery
- Remote alarm light & horn unit (for indoor use only)



Suggested Specifications Text

Ammonia (NH₃) Vapor Detector System

Provide ammonia leak detector, model LBW-RLV, as manufactured by Cool Air Incorporated, St. Paul, Minnesota.

Ammonia safety relief vent leak detector shall be mounted on a 2-inch pipe extension, approximately 4 inches in length from the main header pipe, with a 2-inch union for easy removal during servicing, testing, or calibration.

Detector shall have a solid-state instrument panel and sensor capable of sensing ammonia refrigerant concentrations of 25 to 800 parts per million (PPM), with the factory non-adjustable Early Warning setpoint at 250 PPM and the field-adjustable Alarm setpoint at 500 PPM.

Detector shall contain no radioactive materials.

Detector shall have: an early warning system, a front-panel progressive LED light tree display, dry-contacts for operating auxiliary equipment, and a service mode for avoiding nuisance alarms during servicing, testing, or calibration.

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

Optional back-up battery and remote alarm light & horn unit (indoor use only) shall be available from the detector manufacturer.

Power supply shall be 115/230 VAC, 50/60 Hz, 16 VAC, or 24 VDC.

Detector shall be manufactured in the USA.

Warranty

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

Cool Air Incorporated reserves the right to make changes in the design without notification.

All dimensions and weights are approximate and should not be used for installation planning purposes..

COOLAIR
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