



A2L HVAC System Affidavit¹

Installation Checklist

Integral Refrigerant Detection System (RDS)²

- | | | |
|--|-----|----|
| 1. Is integral RDS required to be installed? (see manufactures instructions) | Yes | No |
| 2. Is the correct part number RDS installed? (RDS may be shipped separately) | Yes | No |
| 3. Are sensors in the correct location? (may change based on air handler orientation) ³ | Yes | No |
| 4. Is RDS wiring connected per manufacturer's wiring diagram? | Yes | No |

Room Size/ Charge Limits

- | | | |
|---|-----|----|
| 1. For ducted systems (no zoning system) – Is total room area connected by duct system greater than minimum room size requirement? | Yes | No |
| 2. For ducted systems (with zoning system) – Is either:
• Smallest zone greater than minimum room size requirement or
• Zoning system configured to open all zones if RDS detects a leak? | Yes | No |
| 3. For non-ducted systems (room units or wall-hung units): Is room size greater than minimum room size requirement? ⁴ | Yes | No |
| 4. Refrigerant charge less than 34.5 lbs per independent system? | Yes | No |

Internal Sources of Ignition

- | | | |
|--|-----|----|
| 1. Field installed auxiliary electric heaters – Is heater kit model identified on nameplate? | Yes | No |
| 2. All electrical components inside enclosure shown on manufacturer's wiring diagram? | Yes | No |

¹ The International Residential Code (IRC- 2024) M1411.2 requires HVAC appliances containing A2L refrigerants be certified to UL 60335-2-40 and installed in accordance with the manufacturer's installation instructions. This checklist is based on the most typical instructions required by UL 60335-2-40. Always refer to the instructions provided with the system. The IRC also specifies installation per the locally adopted electrical and fuel gas codes.

² RDS and minimum room sizes are typically required for HVAC appliances with over an approximate 2-pound charge for nonfixed factory-sealed equipment or an approximate 4-pound charge for other types of equipment.

³ A2L refrigerants are heavier than air. Sensors will typically be located near the bottom of the enclosure below the evaporator coil.

⁴ Mounting height typically measured from bottom of wall hung unit. For wall hung units, minimum room size requirement may change based on mounting height. Rooms on the same floor can be considered if there is a connecting passageway that is a permanent opening, extending to floor that is intended for people to walk through.

Duct-mounted Sources of Ignition

- 1. Identified by equipment manufacturer’s instructions? (e.g., electrostatic air cleaners) Yes No
- 2. No electric heating elements, open flames or switching electrical loads greater than 2.5kVA? Yes No
- 3. Potential duct mounted ignition sources interlocked with airflow (minimum 200 ft/min. face velocity) or de-energized if RDS detects leak? Yes No

Additional Mitigation Controls

- 1. Does the manufacturer specify installation of Safety Shutoff Valves? Yes No

Refrigerant Piping

- 1. Installed and protected per manufacturer’s instructions? Yes No
- 2. Pressure and leak tested per manufacturer’s instructions? Yes No
- 3. Press-connect fittings certified for use with A2L refrigerants? Yes No

Markings, Instructions, and Signage

- 1. Refrigerant type and field adjusted charge recorded on unit label? Yes No
- 2. Contact information for responsible company that installed system? Yes No
- 3. Installation instructions, service manuals and literature available for inspection? Yes No

Signature below is person responsible for complying with all manufacturer specifications and code requirements from ASHRAE 15-2024, ASHRAE 15.2-2-24 and IRC-2024 for the below address.

Project Address

Refrigerant (R-32 or R454B)

Total Charge in Lbs

Name

Date

Company / CSLB#

Phone number