LEAKGUARD 84 • FIELD COMPLIANCE REFERENCE

EPA AIM ACT PART 84 SUBPART C • COMMERCIAL HVAC/R 15-LB CHEAT SHEET

Summary: Under the EPA AIM Act regulations (40 CFR Part 84 Subpart C), mandatory leak rate calculation and repair timetables now apply to all appliances containing **15 or more pounds** of refrigerant (lowered from 50 lbs). Keep this guide in your truck glovebox or attach to service invoices.

1. STATUTORY APPLIANCE LEAK RATE THRESHOLDS (≥ 15 LBS CHARGE)

Equipment Category	Typical Systems	Old Rule	Current Threshold
Comfort Cooling	Rooftop packaged units, split systems, chillers	≥ 50 lbs	**10%** / year (≥ 15 lbs)
Commercial Refrigeration	Supermarket racks, walk-in coolers, cold storage	≥ 50 lbs	**20%** / year (≥ 15 lbs)
Industrial Process (IPR)	Manufacturing, chemical process, blast freezers	≥ 50 lbs	**30%** / year (≥ 15 lbs)

2. STATUTORY 30-DAY REPAIR & VERIFICATION TIMETABLE

Milestone	Statutory Deadline	Mandatory Requirement
Day 0: Addition Date	Immediate	Tech adds refrigerant & calculates leak rate via Annualizing or Rolling formula.
Day 30: Initial Verification	Within 30 Calendar Days	Complete leak repair and perform initial verification test BEFORE recharging or resuming operations.
Day 60: Follow-up Verification	Within 30 Days of Day 30	Conduct second verification test once system returns to normal operating pressure/temperature.

3. THE TWO APPROVED EPA CALCULATION FORMULAS

Method 1: Annualizing Method (Single addition with known interval)	**Formula:** Rate % = [(Pounds Added ÷ Full Charge lbs) × (365 ÷ Days Elapsed)] × 100 *Example:* 4 lbs added to 25 lb RTU after 60 days = (4 / 25) × (365 / 60) × 100 = **97.3%** (Exceeds 10% limit!)
Method 2: Rolling Average Method (Multiple additions over 365 days)	**Formula:** Rate % = [Cumulative Pounds Added in Past 365 Days ÷ Full Charge lbs] × 100 *Requires:* Complete service log history for the prior 365 calendar days.

4. MANDATORY SERVICE TICKET / INVOICE CHECKLIST

- **Appliance Identifier & Location:** Asset tag, serial number, rooftop/mechanical room location.
- **Full Charge & Refrigerant:** Verified nameplate charge in lbs and exact refrigerant ASHRAE code (e.g. R-410A, R-404A).
- **Service Event Details:** Date of addition, exact pounds added, and elapsed days since prior addition.
- **Calculated Leak Rate & Clock:** Calculated percentage, threshold comparison, and statutory 30-day verification deadline.
- **Technician Certification:** EPA Section 608 universal/type certification number and technician signature.

FREE MOBILE EPA LEAK CALCULATOR FOR TECHNICIANS ON-SITE:
Run the exact EPA annualizing math in 30 seconds on any smartphone (no app install or login required):
https://leakguard84.com

Disclaimer: This field guide is provided for educational and operational reference by commercial mechanical contractors. Owners/operators remain legally responsible for 40 CFR Part 84 Subpart C compliance. © LeakGuard 84.