

Northstar Refrigeration (sample)

Refrigerant leak-rate and compliance report

40 CFR PART 84, SUBPART C

COMPLIANCE REPORT

Hilltop Market

REPORT PERIOD

Jan 1, 2026 to Oct 18, 2026

GENERATED

Oct 18, 2026

Prepared by Northstar Refrigeration (sample)

SITES

Hilltop Market #1 - Ridgeway

1450 Ridgeway Ave, Fairbrook, CA 95000

Hilltop Market #2 - Lakeside

88 Lakeside Dr, Fairbrook, CA 95000

SUMMARY

APPLIANCES COVERED

3

of 3 appliances on file

LEAK-RATE EXCEEDANCES

1

on 1 appliance in this period

OPEN DEADLINES

1

none overdue

CHRONIC LEAKERS

0

none identified

Leak-rate method: Rolling average — refrigerant added over the previous 365 days, as a share of full charge.

Open deadlines (1)

DUE	APPLIANCE	REQUIREMENT	DETAIL	CITATION
Jan 6, 2027	Rack A	Leak inspection	Quarterly leak inspection (1 of 4 done; ends after 4 consecutive quarters below the leak rate). ? interpretation — confirm with your compliance advisor	40 CFR 84.106(g)(1)(i)

Appliance register (3)

APPLIANCE	SITE	REFRIGERANT	FULL CHARGE	CHARGE METHOD	COVERAGE
Rack A S/N HM1-LT-60418	Hilltop Market #1 - Ridgeway Commercial refrigeration	R-448A	600.0 lb	1 — manufacturer's specification	Covered
Rack B S/N HM1-MT-45022	Hilltop Market #1 - Ridgeway Commercial refrigeration	R-448A	450.0 lb range 420–480 lb	4 — range midpoint	Covered
Walk-in Freezer S/N HM2-WI-2207	Hilltop Market #2 - Lakeside Commercial refrigeration	R-404A	22.0 lb	2 — manufacturer + field calculation	Covered

Appliance detail

Service history and leak-rate evaluations from Jan 1, 2026 to Oct 18, 2026, with the source record for each entry.

Rack A

Covered

Hilltop Market #1 - Ridgeway · R-448A · 600.0 lb full charge · S/N HM1-LT-60418

Covered: full charge 600 lb (>= 15 lb), HFC / GWP > 53 refrigerant, not residential/light-commercial AC, not ODS-only.

SERVICE HISTORY

DATE	EVENT	POUNDS	TECHNICIAN	NOTES	SOURCE
Jan 14, 2026	Refrigerant added	8.0 lb	Marcus Delgado	Job 48211304 · Routine top-off, receiver level low. No leak found on walk-through.	servicetitan_export.csv, row 1
Mar 10, 2026	Refrigerant added	12.0 lb	Marcus Delgado	Job 48228315 · Topped off. Oil spot at case 7 TXV, monitoring.	servicetitan_export.csv, row 8
May 6, 2026	Refrigerant added	15.0 lb	Marcus Delgado	Job 48237733 · Topped off. Leak search on case lines 1-4, nothing conclusive.	servicetitan_export.csv, row 16
Jun 18, 2026	Refrigerant added	95.0 lb	Marcus Delgado	Job 48243588 · Emergency call: cracked flare on suction line, case line 3-4. Charged to restore receiver level. Customer notified of possible leak-rate exceedance.	servicetitan_export.csv, row 24
Jul 2, 2026	Initial verification test — pass	—	Marcus Delgado	Brazed repair of case line 3-4 suction flare; bubble test + standing pressure held.	job 48245102
Jul 10, 2026	Follow-up verification test — pass	—	Marcus Delgado	Electronic detector at normal operating conditions; no leaks.	job 48246870
Aug 20, 2026	Refrigerant added	4.0 lb	Marcus Delgado	Job 48250877 · Routine top-off after repair.	servicetitan_export.csv, row 33
Oct 6, 2026	Leak inspection	—	Marcus Delgado	Quarterly leak inspection (84.106(g)(1)(i)); no leaks found.	job 48256118

LEAK-RATE EVALUATIONS

DATE	ADDED	METHOD	LEAK RATE	THRESHOLD	OVER THRESHOLD	REPAIR DUE	BASIS
Jan 14, 2026	8.0 lb	Rolling	1.33%	20%	No	—	Pounds added since Jan 1, 2026 (first calculation under the rule): 8 lb. 8 lb ÷ 600 lb full charge × 100 = 1.3%. 40 CFR 84.106(b); 40 CFR 84.102 'Leak rate' (2)(i)-(iii); 40 CFR 84.106(b)(2); 40 CFR 84.106(c)(2)(i) ^[1]
Mar 10, 2026	12.0 lb	Rolling	3.33%	20%	No	—	Pounds added since Mar 10, 2025 (365-day window): 8 + 12 = 20 lb. 20 lb ÷ 600 lb full charge × 100 = 3.3%. 40 CFR 84.106(b); 40 CFR 84.102 'Leak rate' (2)(i)-(iii); 40 CFR 84.106(c)(2)(i)
May 6, 2026	15.0 lb	Rolling	5.83%	20%	No	—	Pounds added since May 6, 2025 (365-day window): 8 + 12 + 15 = 35 lb. 35 lb ÷ 600 lb full charge × 100 = 5.8%. 40 CFR 84.106(b); 40 CFR 84.102 'Leak rate' (2)(i)-(iii); 40 CFR 84.106(c)(2)(i)
Jun 18, 2026	95.0 lb	Rolling	21.67%	20%	Yes	Jul 18, 2026	Pounds added since Jun 18, 2025 (365-day window): 8 + 12 + 15 + 95 = 130 lb. 130 lb ÷ 600 lb full charge × 100 = 21.7%. 40 CFR 84.106(b); 40 CFR 84.102 'Leak rate' (2)(i)-(iii); 40 CFR 84.106(c)(2)(i); 40 CFR 84.106(d); 40 CFR 84.106(e)(1)

DATE	ADDED	METHOD	LEAK RATE	THRESHOLD	OVER THRESHOLD	REPAIR DUE	BASIS
Aug 20, 2026	4.0 lb	Rolling	0.67%	20%	No	—	Pounds added since Jul 10, 2026 (last passed follow-up verification test): 4 lb. 4 lb ÷ 600 lb full charge × 100 = 0.7%. 40 CFR 84.106(b); 40 CFR 84.102 'Leak rate' (2)(i)-(iii); 40 CFR 84.106(c)(2)(i) ^[2]

1. First rolling calculation after January 1, 2026 (no prior non-seasonal addition on/after Jan 1, 2026): pounds added since January 1, 2026 are used (84.106(b)(2)); additions dated Jan 1, 2026 are included.
2. Window starts at the last successful follow-up verification test; LeakLedger presumes a passing follow-up verification test shows ALL identified leaks repaired (84.102 'Leak rate' (2)(i)).
- How the rate was evaluated: Rolling-average method (40 CFR 84.102): pounds added over the past 365 days, or since the last passing follow-up verification test if that is shorter, divided by the full charge. A rate over the threshold starts a 30-day clock to repair and verify the leak.

Rack B

Covered

Hilltop Market #1 - Ridgeway · R-448A · 450.0 lb full charge · S/N HM1-MT-45022
Covered: full charge 450 lb (>= 15 lb), HFC / GWP > 53 refrigerant, not residential/light-commercial AC, not ODS-only.

SERVICE HISTORY

DATE	EVENT	POUNDS	TECHNICIAN	NOTES	SOURCE
Feb 11, 2026	Refrigerant added	6.0 lb	Priya Natarajan	Job 48219877 · Routine top-off.	servicetitan_export.csv, row 4
Apr 22, 2026	Refrigerant added	9.0 lb	Priya Natarajan	Job 48235517 · Topped off med-temp rack.	servicetitan_export.csv, row 15
May 27, 2026	Refrigerant added	3.0 lb	Priya Natarajan	Job 48240388 · Routine top-off.	servicetitan_export.csv, row 19
Jul 30, 2026	Refrigerant added	7.0 lb	Priya Natarajan	Job 48248119 · Routine top-off.	servicetitan_export.csv, row 30

LEAK-RATE EVALUATIONS

DATE	ADDED	METHOD	LEAK RATE	THRESHOLD	OVER THRESHOLD	REPAIR DUE	BASIS
Feb 11, 2026	6.0 lb	Rolling	1.33%	20%	No	—	Pounds added since Jan 1, 2026 (first calculation under the rule): 6 lb. 6 lb ÷ 450 lb full charge × 100 = 1.3%. 40 CFR 84.106(b); 40 CFR 84.102 'Leak rate' (2)(i)-(iii); 40 CFR 84.106(b)(2); 40 CFR 84.106(c)(2)(i) ^[1]
Apr 22, 2026	9.0 lb	Rolling	3.33%	20%	No	—	Pounds added since Apr 22, 2025 (365-day window): 6 + 9 = 15 lb. 15 lb ÷ 450 lb full charge × 100 = 3.3%. 40 CFR 84.106(b); 40 CFR 84.102 'Leak rate' (2)(i)-(iii); 40 CFR 84.106(c)(2)(i)
May 27, 2026	3.0 lb	Rolling	4.00%	20%	No	—	Pounds added since May 27, 2025 (365-day window): 6 + 9 + 3 = 18 lb. 18 lb ÷ 450 lb full charge × 100 = 4.0%. 40 CFR 84.106(b); 40 CFR 84.102 'Leak rate' (2)(i)-(iii); 40 CFR 84.106(c)(2)(i)
Jul 30, 2026	7.0 lb	Rolling	5.56%	20%	No	—	Pounds added since Jul 30, 2025 (365-day window): 6 + 9 + 3 + 7 = 25 lb. 25 lb ÷ 450 lb full charge × 100 = 5.6%. 40 CFR 84.106(b); 40 CFR 84.102 'Leak rate' (2)(i)-(iii); 40 CFR 84.106(c)(2)(i)

1. First rolling calculation after January 1, 2026 (no prior non-seasonal addition on/after Jan 1, 2026): pounds added since January 1, 2026 are used (84.106(b)(2)); additions dated Jan 1, 2026 are included.

How the rate was evaluated: Rolling-average method (40 CFR 84.102): pounds added over the past 365 days, or since the last passing follow-up verification test if that is shorter, divided by the full charge. A rate over the threshold starts a 30-day clock to repair and verify the leak.

Walk-in Freezer

Covered

Hilltop Market #2 - Lakeside · R-404A · 22.0 lb full charge · S/N HM2-WI-2207
Covered: full charge 22 lb (>= 15 lb), HFC / GWP > 53 refrigerant, not residential/light-commercial AC, not ODS-only.

SERVICE HISTORY

DATE	EVENT	POUNDS	TECHNICIAN	NOTES	SOURCE
Mar 3, 2026	Refrigerant added	1.5 lb	Dana Okafor	Job 48226951 · Low charge, small top-off.	servicetitan_export.csv, row 6
May 19, 2026	Refrigerant recovered	2.0 lb	Dana Okafor	Job 48239914 · Overcharged after TXV replacement by others. Recovered 2.0 lb to recovery cylinder RC-22.	servicetitan_export.csv, row 18
Aug 12, 2026	Refrigerant added	2.0 lb	Dana Okafor	Job 48249960 · Top-off. Checked TXV and flare nuts, no leak found.	servicetitan_export.csv, row 31

LEAK-RATE EVALUATIONS

DATE	ADDED	METHOD	LEAK RATE	THRESHOLD	OVER THRESHOLD	REPAIR DUE	BASIS
Mar 3, 2026	1.5 lb	Rolling	6.82%	20%	No	—	Pounds added since Jan 1, 2026 (first calculation under the rule): 1.5 lb. 1.5 lb ÷ 22 lb full charge × 100 = 6.8%. 40 CFR 84.106(b); 40 CFR 84.102 'Leak rate' (2)(i)-(iii); 40 CFR 84.106(b)(2); 40 CFR 84.106(c)(2)(i) ^[1]
Aug 12, 2026	2.0 lb	Rolling	15.91%	20%	No	—	Pounds added since Aug 12, 2025 (365-day window): 1.5 + 2 = 3.5 lb. 3.5 lb ÷ 22 lb full charge × 100 = 15.9%. 40 CFR 84.106(b); 40 CFR 84.102 'Leak rate' (2)(i)-(iii); 40 CFR 84.106(c)(2)(i)

1. First rolling calculation after January 1, 2026 (no prior non-seasonal addition on/after Jan 1, 2026): pounds added since January 1, 2026 are used (84.106(b)(2)); additions dated Jan 1, 2026 are included.

How the rate was evaluated: Rolling-average method (40 CFR 84.102): pounds added over the past 365 days, or since the last passing follow-up verification test if that is shorter, divided by the full charge. A rate over the threshold starts a 30-day clock to repair and verify the leak.

Missing data (3)

Records that are missing or still waiting for review. Adding them may change the leak rates and deadlines above.

- Unmatched import row: servicetitan_export.csv row 26 — Ice Machine on 2026-06-30 (0.8 lb). Not included in leak rates.
- Unmatched import row: servicetitan_export.csv row 36 — Rack A/B on 2026-09-15 (10.0 lb). Not included in leak rates.
- 5 imported row(s) for this customer are still pending review and are not included in leak rates.

Notes and interpretations

- Rack A:** 'once every three months' / 'once per year after the date of a successful follow-up verification test' is read as +3 calendar months / +1 calendar year, clamped to the month end; the regulation does not say whether later inspections run from the follow-up test date or from the previous inspection.

? interpretation — confirm with your compliance advisor

Decision support, not a legal determination. Leak rates are computed from the records provided; additions by other contractors may be missing.

Sample report built from fictional data.

Engine version 0.2.1 · Generated Oct 18, 2026, 19:49 UTC