

220-bed regional hospital

Midwest U.S.

A 220-bed acute-care hospital retrofitted 340 patient-facing fixtures to run continuous UV-C air purification during occupied hours.

6.2×

AIR CHANGES / HR

-71%

AIRBORNE CFU COUNT

340

FIXTURES DEPLOYED

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BEDS OFFLINE

THE CHALLENGE

Between HVAC cycles, air in patient rooms, corridors, and waiting areas stagnated for 20–40 minutes. Existing HEPA carts were disruptive and only deployed reactively after known exposures.

THE SOLUTION

SafeAirUV™ 2×4 troffers replaced existing LED panels across patient rooms, nurse stations, and corridors. Fixtures were installed department-by-department across four weekends with zero unit closures.

OUTCOMES

- 71% reduction in airborne bacterial CFU counts vs. pre-install baseline (90-day sampling).
- Sustained 6.2 ACH in patient rooms, exceeding the CDC 6 ACH airborne-isolation target.
- Facilities team eliminated 60% of previously scheduled portable HEPA deployments.
- Zero UV-related patient or staff safety incidents in the first 12 months of operation.

FACILITY SNAPSHOT

FACILITY TYPE	Acute-care hospital
BEDS	220
FIXTURES	340 × 2×4 troffer
INSTALL	4 weekends

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We finally have a disinfection layer that runs during patient hours — not just overnight. It's part of the building now, not a cart someone has to remember to wheel in.

— Director of Facilities