

HVAC UV System Buying Checklist

10 Things to Verify Before Purchasing an HVAC UV Light System

Check each box only when you have an answer in writing. Use the comparison worksheet on page 3 to evaluate two offers.

01**Define the job you want UV to do**☐

Write down the target: microbial growth on a coil, or microorganisms moving through the air. UV does not capture dust. Keep filtration, moisture control and ventilation in the plan; do not treat UV as a guarantee of healthy indoor air. [1]

02**Separate coil irradiation from air treatment**☐

A coil system exposes surfaces over time. Airstream treatment must deliver sufficient exposure while air moves past the lamps. Ask which application was tested; a coil-light claim does not establish whole-home air disinfection performance. [2]

03**Confirm compatibility with your HVAC equipment**☐

Have the installer document the air-handler model, coil dimensions, available mounting space and access. Request written confirmation that nearby insulation, wiring and other exposed materials are compatible with the proposed UV installation. [2]

04**Verify placement and actual coverage**☐

Ask for a placement sketch, lamp quantity and treatment area. Shadows and obstructions matter. For air treatment, request the design airflow and exposure basis; for coils, verify which coil face and drain-pan areas receive light. [2]

05**Check the complete electrical requirement**☐

Record voltage, wattage, power-supply or ballast requirements and the proposed connection. Ask who supplies any transformer, outlet or circuit work, and whether the installation complies with equipment instructions and local electrical requirements.

Before you commit

06

Identify the lamp and replacement schedule



Record lamp technology, exact replacement part and rated service interval under your operating conditions. Ask whether the timer tracks elapsed or operating hours. Visible light alone is not proof of adequate germicidal output. [2]

07

Read performance evidence, not just a percentage



Request a full test report: target organism, exposure, airflow, temperature, humidity and test setup. Ask whether results apply to your installation. Laboratory reduction claims do not establish illness prevention or guaranteed indoor-air-quality improvement. [1, 2]

08

Plan safe installation and servicing



Ask how the system prevents eye and skin exposure, including access-panel shutoff or other safeguards. Require a safe power-isolation procedure and service instructions. Check ozone information; avoid devices designed to generate ozone in occupied spaces. [1, 2]

09

Compare warranty and total ownership cost



Get separate prices for equipment, installation, lamps, labor and power. Confirm warranty length for lamps versus electronics, exclusions, shipping and labor coverage. Request replacement-part availability and a written service quote.

10

Ask for a clear handover before you buy



Ask: Why this model for my goal? What evidence supports it? What is outside the claim? Who verifies installation? What must I maintain, and when? Keep the manual, placement drawing, quotation and installer contact together.

SOURCE NOTES

1. EPA - Residential air cleaners (technical summary)

2. ASHRAE - Ultraviolet air and surface treatment, Chapter 62

Sources accessed October 11, 2026. Links open the supporting references. This is a buying aid, not a site-specific design or a product endorsement.

System comparison worksheet

Print this page. Ask both suppliers to quote the same operating conditions and scope.

Project / property: _____ Date: _____

COMPARE IN WRITING	SYSTEM / SUPPLIER A	SYSTEM / SUPPLIER B
Manufacturer / model		
Intended application		
Installation requirements / compatibility		
Placement / performance evidence		
Lamp part / interval / replacement cost		
Warranty / exclusions		
Initial purchase cost		
Installation cost		
Annual service / power cost		
Notes / installer contact		

MAKE THE DECISION ON EVIDENCE

Unanswered items to resolve before ordering: _____
