

Why do prefab security booth manufacturers get HVAC wrong?



When it comes to heating and cooling, some manufacturers see an HVAC system as oversized or overly complex for a prefab booth and offer a simpler alternative. Unfortunately, these generic HVAC solutions compromise comfort and efficiency; they fail to consider:

- Exposure to extreme temperatures and environmental elements.
- Significant loss of conditioned air due to frequent opening of the doors and sliding windows to communicate with drivers or walk-up visitors.
- Specific dimensions and intended use of the booth.
- Code compliance requirements.



4 Ways B.I.G. gets HVAC right.

1. Correctly assessing HVAC needs for each prefab booth

- We recommend HVAC systems that are high SEER rated, wall-mounted, combination heating and cooling units, and ductless split system units.
- We can install independent HVAC systems for specialized data spaces, housing critical infrastructure with separate cooling needs.

2. Code compliance

Our sales and engineering team is knowledgeable about every code requirement across the US.

- Many areas prohibit roof-mounted HVAC units unless a 4' tall fall protection railing is present.
- A proper SEER rating (Seasonal Energy Efficiency Ratio) is needed to ensure the booth meets the energy code required to obtain a building permit.

3. Continuous insulation—a B.I.G. exclusive

We're the only manufacturer that offers continuous insulation encapsulated within the final exterior layer of 16ga. stainless steel.

- It covers all wall panels from floor height up to soffit height; vertical structural frames and window frames are also insulated.
- Standard for every booth, including Bullet Resistant booths.

4. Using ductless split system units

- Flexible placement: A unit can be added to different areas of the booth, such as a restroom, and controlled independently.
- Easy installation: The interior ductless split system cassettes are placed in the attic, and easily accessed through the acoustic tile drop ceiling. Our acoustic tile grid is formed from 16ga. galvanized steel and painted to match the booth for architectural integrity—another B.I.G. exclusive.

USEFUL THOUGHTS

5 Inputs for right-sizing the HVAC

1. Square Footage: The total area that needs climate control.
2. Insulation Quality: Well-insulated structures hold temperatures better.
3. Number of Occupants: More people generate additional heat, requiring more cooling capacity.
4. Equipment Load: Electronic devices or machinery in the booth generate heat.
5. Integration with Other Systems: Ensure the HVAC system integrates well with other features like electrical systems and ventilation requirements.

Read how our 50+ years of experience saves you on prefab guard shacks and avoids costly HVAC mistakes. [CLICK HERE](#)

Need guidance? Ask our experts: 1.800.669.1449

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