

# WAB and HTC and LTV

Comparison Between Whole-Space Warm Air Heating and  
Two Types of Industrial Radiant Heating Solutions

## Key Conclusions:

All three solutions can be used in industrial buildings, but their heating logic and application focus are completely different.

- WAB: Overall warm air coverage for the main building space
- HTC: High-intensity radiant heating for localized work areas
- LTV: Large-area, balanced, and continuous overall radiant heating coverage
- If the goal is overall warm air coverage of the building → choose WAB
- If the goal is stronger localized heating for work areas → choose HTC
- If the goal is overall radiant heating coverage → choose LTV

## Comparison Dimension:

Comparison Dimension	WAB	HTC	LTV
Heating Principle	Indirect-fired warm air heating	High-intensity ceramic radiant heating	Low-intensity tube radiant heating
Heat Transfer Method	Warm air covers the main building space	Concentrated radiant heating in local areas	Radiant heating across larger areas
Main Positioning	Whole-space warm air heating solution	Localized heating enhancement	Overall radiant heating solution

Comparison Dimension	WAB	HTC	LTV
Application Areas	Factories, warehouses, workshop main spaces	Work areas, activity zones, localized areas	Factories, warehouses, workshops, and high-bay buildings
Primary focus on whole-space coverage	Yes	No	Yes
Thermal Comfort Effect	Overall temperature increase	More direct and concentrated	More balanced and continuous
Building Safety Requirements	Indoor warm air heater installation conditions	Indoor gas routing + ventilation requirements	Indoor gas routing + ventilation requirements
Key Project Evaluation Focus	Overall temperature increase	Local thermal comfort	Overall radiant heating coverage
Best Suited For	Establishing the thermal environment of the main building space	Local work-area heating enhancement	Large-area radiant heating coverage

**Quick Selection Guidelines:**

**Situations Where WAB Should Be Prioritized:**

- Overall temperature increase of the main building space is the primary objective
- Greater emphasis is placed on a warm air heating solution rather than a radiant heating solution
- Establishing the overall thermal environment of factories, warehouses, and workshops is more important

**Situations Where HTC Should Be Prioritized:**

- Greater focus is placed on thermal comfort in local work areas
- Whole-space coverage is not the primary objective
- Stronger, more concentrated, and more direct radiant heating is required

**Situations Where LTV Should Be Prioritized:**

- Greater focus is placed on large-area radiant heating coverage
- The goal is to establish a continuous and balanced radiant heating environment
- High-bay industrial projects are more typical applications

**Conclusion:**

WAB is designed for overall warm air coverage of the main building space, HTC is designed for localized thermal comfort enhancement, and LTV is designed for large-area overall radiant heating coverage.