

HTC and WAB

Comparison Between Industrial Localized Radiant Heating Enhancement and Industrial Warm Air Whole-Space Heating

Key Conclusions:

The core difference between HTC and WAB is not which one is more advanced, but that they serve different heating logic.

HTC: High-intensity ceramic radiant heating, better suited for local work areas, activity zones, and enhanced thermal comfort.

WAB: Indirect-fired warm air heating, better suited for overall temperature increase and establishing the thermal environment of the main building space.

- If the goal is stronger localized heating → choose HTC.
- If the goal is whole-space warm air coverage → choose WAB.

Comparison Dimension:

Comparison Dimension	HTC	WAB
Heating Principle	High-intensity ceramic radiant heating	Indirect-fired warm air heating
Heat Transfer Method	Radiation acts directly on the target area	Warm air covers the main space
Main Positioning	Localized heating enhancement	Whole-space warm air heating

Comparison Dimension	HTC	WAB
Application Areas	Work areas / activity zones / localized areas	Factories / warehouses / workshop main spaces
Applicable Buildings	High-bay buildings / localized work areas	Factories / warehouses / workshops / industrial buildings
Whole-space coverage focus	No	Yes
Thermal effect	More direct and concentrated	More balanced and even
Building requirements	Indoor gas routing + ventilation	Indoor indirect-fired installation conditions
Evaluation priority	Check local heating needs first	Check whole-space heating needs first
Best suited for	Localized enhancement	Overall building-space heating

Quick Selection Guidelines:

Prioritize **HTC** when localized work-area heating matters most, stronger direct radiant heating is required, and indoor gas routing is acceptable.

Prioritize **WAB** when overall warm air coverage matters more than localized heating and the project is better suited for a warm air heating approach.

Conclusion:

HTC is a localized enhanced radiant heating solution, while WAB is a whole-space warm air heating solution.