



Heating Airport and Aircraft Hangar Projects



FACILITIES: Aircraft hangars, maintenance buildings and air cargo warehouses

HEATING PROBLEMS:

- Need energy efficient space heat and ventilation for buildings with big open spaces, high ceilings and large doors that are frequently opened and closed.
- Long recovery time to re-heat buildings from use of large hangar doors or multiple warehouse dock doors
- Not enough heat to offset cold winter air infiltration rates
- Flywheel effect from infrared and floor heating systems that over heat the building and wastes energy in milder climates and milder days
- Indoor air quality problems associated with re-circulated building air containing contaminants from aircraft, fuel handling, forklift trucks and out gassing from stored materials
- Poorly designed heating systems cause uneven heating that results in uncomfortable workers and floor-to ceiling temperature stratification that wastes energy
- Hot spots from infrared heaters that can damage aircraft and air cargo
- Current indirect-fired heating systems (boilers, unit heaters, floor heating systems and infrared heaters) with heat exchangers or radiant tubes are not energy efficient, require a flue roof penetration, provide no building ventilation and therefore need to be replaced

CAMBRIDGE SOLUTIONS:

- Genuine Cambridge® direct-fired Blow-Thru® space heaters are the most cost-effective and energy efficient heating/ventilating solution for aircraft hangars, maintenance buildings and air cargo warehouses
- Less gas piping and wiring is required compared to infrared and other heating systems for lower installation costs
- Direct-fired Cambridge heaters do not require a heat exchanger or flue. There is no wasted energy. 100% of the heat goes into the building saving energy and reducing operating costs
- The powerful Blow-Thru design and proprietary Cambridge burner offers the highest Btu/cfm ratio. This provides the fastest response, most precise temperature control and uses less energy than other slower response heating technologies. It is the best solution for cold winter air infiltration problems, provides faster recovery times to re-heat buildings with large door activity and eliminates over heating from the flywheel effect in milder climates and milder days
- High velocity, non-recirculated discharge air provides both needed ventilation and fresh air flowing throughout the building. This eliminates hot spots, overheated floor areas, high ceiling temperatures, stratification and uncomfortable cold door areas



CAMBRIDGE RESULTS:

- Engineers, contractors, airport operators and aircraft hangar owners have specified and used dependable, energy efficient Cambridge direct fired heating equipment for over 20 years.
- 40% to 70% energy savings has been documented versus other heating technologies in buildings with ceiling heights up to 70 ft.
- Wall-to-wall, floor-to-ceiling temperature variances of less than 5°F during cold winter months are common, compared to 10° to 20° F for other heating technologies including some overhead infrared units and in-floor radiant heating systems
- Service contractors now recommend easy-to-install wall, ceiling or roof mounted Cambridge Blow-Thru Space Heaters as a green cost effective replacement for inefficient indirect fired heating systems. They improve indoor air quality, provide more even heating, save energy and reduce operating costs



Here is a partial list of aircraft hangars, maintenance buildings and airport cargo warehouses that use Cambridge heating equipment:

Brigham City Airport Hangar
 Broom County Airport Hangar
 Carver Aero Aircraft Hangar
 Columbus Int'l Airport Warehouse
 Deere & Co. Aircraft Hangar
 Delta Airlines Baggage Handling
 DHL Airways Cargo Buildings
 Dynamic Aviation Hangar
 Executive Air Hangar
 Flying J Aircraft Hanger
 Gateway Tech Aviation Center
 Golden Giant Aircraft Hangar
 Goodfellow Air Force Base
 Great River Medical Heliport Hangar
 Griffith City Airport Hangar
 Hill Air Force Base Hangar
 John Deere Corporate Hangar
 Linden Airport Warehouses
 Liz Claiborne Aircraft Hangar

Majestic Airport Warehouse
 McClellan Air Park Hangar
 Metro Airport Center Warehouse
 Midcoast Aviation Hangar
 Mobil Air Transport Warehouse
 Northwest Airlines Maint. Facilities
 O'Hare Airport Cargo Facilities
 Pease Air Force Base Hangar
 Platinum Aviation Hangar
 PSA Airlines Hangar
 Richmor Aviation Hangar
 Saberliner Hangar
 Satellite Air Cargo
 Seaway Aviation Hangar
 Shawnee City Airport Hangar
 Sheltair Aviation Hangar
 Southwest Airlines Hangar
 Tinker Air Force Base
 U.S. Air Cargo Facilities

