

HVAC System Design



HVAC Systems

Air Conditioning Systems
HVAC Systems
Exhaust Systems
Chilled Water Systems
Hot Water Systems
Steam Systems
Boilers
Chillers
Cooling Towers
Computer Room Air Conditioning
Water Pumps
Fans

Hands-On HVAC Design

GEi is a "Hands-On" engineering firm with years of experience in HVAC design. Our body of work ranges from small, single-zone air systems to complex, multi-zone air, hot/chilled water, and steam systems. Selected examples of completed GEi projects include:

- In-place replacement of (6) existing single-stage steam absorption chillers with new 2-stage absorption machines, totaling approximately 1,600 tons of cooling capacity.
- Design of a new data center cooling system featuring n+1 equipment redundancy.
- New HVAC systems to serve a hospital Emergency Department and Critical Care unit, including multi-zone control and total enthalpy heat recovery.
- Major upgrades to a 50-year old steam boiler plant, including conversion from #6 bunker fuel to cleaner #2 fuel oil, burner & controls replacement, and design of a complete new main steam header to facilitate maintenance of existing valves with the plant remaining in operation.
- Design of a new HVAC system to provide Laminar Flow distribution to multiple renovated operating rooms in an existing hospital Surgical Suite.

HVAC System Importance

HVAC systems are crucial to the success of any occupied facility. A well-designed HVAC system serves to keep staff and clients comfortable and productive, as well as maintaining processes at optimal efficiency.

