



High Temperature



Perforated Floor



HVAC Unit



Duct Work

EEC Competitive Advantage

EEC's ability to provide everything from mechanical engineering, consulting, design, and construction services to fix existing cooling problems and meet future load demands.

Project Details

Lifeline Systems, Inc. provides emergency response communication services to the sick, elderly, and disabled. System fluctuation, or even worse - system failure, is not an option because the livelihood of Lifeline's clients depend upon uptime.

Problem: Two Lifeline data centers were experiencing mechanical system failures due to ambient temperatures. To compound the issue, Lifeline's IT department was experiencing a substantial growth. The centers were not capable of handling current loads, not to mention future demand.

Solution: EEC evaluated both the mechanical and electrical infrastructures, and provided a solution that would fix existing problems and allow for the expected computer hardware growth of 7% per year over the next five years. EEC's solution involved redirecting airflow and adding new equipment to supplement existing units.

Data Center I

- Install new 10 ton Liebert upflow AC
- Relocate existing 5 ton AC closer to heat loads to prevent recycling of discharged air

Data Center II

- Relocate duct work for better air distribution
- Install new perforated floor tiles to provide under floor cooling
- Rig 20 ton Liebert downflow AC through 2nd story window and install in data center
- Use existing raised floor as supply plenum
- Perform air balance upon completing project
- Mechanical and electrical engineering evaluations performed at both sites

Company Information

Lifeline Systems, Inc.
Framingham, Massachusetts