

# Specialty

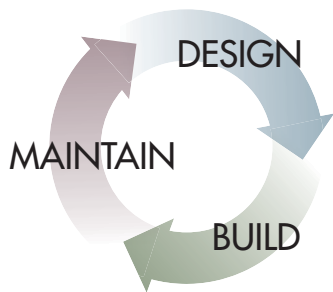
## DESIGN & CONSTRUCTION



WE TAKE PRIDE IN OUR COMPLETE OFFERING OF:

- Power & Electrical Systems
- Raised Access Flooring Systems
- Air Conditioning Systems
- Fire Protection Systems
- Maintenance & Service Packages

OFFICES | CALL CENTERS | DATA CENTERS  
CLEAN ROOMS | NETWORK OPERATION CENTERS



THE ONLY COMPLETE  
FACILITY AND SYSTEMS GUARANTEE  
IN THE BUSINESS

Computer Sites, Inc. is a specialty construction company that has developed a unique approach for meeting the common objectives of efficient operation and maximum up-time for critical environments. As a result of years of experience working with our customers to design, build and maintain their data centers and infrastructure, we can offer the only “complete facility and system” guarantee in the business. You have our commitment that CSI can handle your current project and be there for your future needs.

COMPUTER SITES, INC.  
1225 SOUTH HURON ST.  
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TELE 303.871.0550  
TOLL FREE 888.742.3999  
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# Products and Services

## Quality & Performance Expectations

Computer Sites, Inc. continually strives to excel in all aspects of designing, building and maintaining critical environments. This approach includes providing innovative and creative solutions in a productive and efficient manner. We start by listening to our customer's needs and responding in a reliable and timely fashion. We pride ourselves in anticipating both the short and long term risks associated with the design, construction and maintenance of critical environments. We are continually exploring opportunities to increase our productivity and enhance our value to our customer base. Our past and future success is built on the premise of effectively communicating with our customers to ensure we exceed their expectations.

CSI offers a complete suite of products and services to maximize up-time and allow for efficient operation of your critical environment

- Standby Power Generators
- Mobile Emergency Power Systems
- Uninterruptible Power Systems (UPS)
- UPS Batteries & Service
- Power Distribution Units (PDU)
- Power Distribution Cables
- Raised Access Flooring
- Underfloor Power & Air
- Floor Cleaning & Accessories
- Computer-Grade Air Conditioning
- Portable Emergency Cooling Units
- Fire Detection Systems
- Fire Suppression Systems
- Condition Monitoring
- Specialty Construction Services
- Maintenance Services & Plans
- Warranty Service & Plans
- Critical Environment Planning & Evaluation



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#### CSI MISSION STATEMENT:

**We will meet or exceed our customers expectations through consistent and timely delivery of products and services.**

# Power & Electrical

S Y S T E M S



## PRODUCT OFFERINGS INCLUDE:

- Power Generators & Transfer Switches
- Uninterruptible Power Systems (UPS)
- UPS Batteries & Service
- Power Distribution Units (PDU)
- Power Distribution Cables
- Transient Voltage Surge Suppression (TVSS) Systems
- System Surveys, Upgrades & Expansion
- System Inspections & Service

Computer Sites, Inc. provides knowledgeable, experienced engineers and electricians that understand the complexities and challenges of working in a live data center. We're committed to delivering outstanding service that no other company can equal.

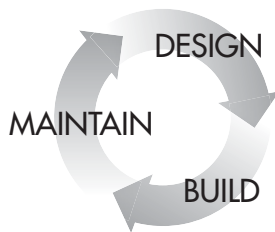
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# Power & Electrical SYSTEMS

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## GENERATOR/STANDBY POWER

- Diesel Power – Sizes range from 7 kW to 2.7 MW. Suitable for standby/emergency, or prime power applications
- Spark-Ignited – Natural Gas/Propane engines range from 7 kW to 150kW. Suited for mid-sized applications where on-site fuel storage is restricted
- Lean-Burn Natural Gas – Sizes range from 15 kW to 2 MW
- Permanent, mobile and temporary installations
- Remote monitoring of all vital systems and components

## TRANSFER SWITCHES

- Automatic/bypass/manual
- Mechanical and electrical interlocks
- System communications and remote monitoring
- LED bar graphs for quick monitoring

## UNINTERRUPTIBLE POWER SYSTEMS (UPS)

- Stand alone and rack mount, 400VA – 750kVA systems
- Prevents: Power failure, sag, surge, under/over voltage, line noise, frequency variation, switching transients and harmonic distortion
- Scaleable, modular and redundant designs
- Power management and monitoring software
- Battery replacement & service

## POWER DISTRIBUTION UNITS (PDU)

- Protects equipment from electrical noise and spikes
- Configurable for future growth and expansion (multiple poles for distribution)
- System monitoring and diagnostics to facilitate load balancing

## POWER DISTRIBUTION CABLES

## TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS)

## SYSTEM SURVEYS, INSPECTIONS, UPGRADES & EXPANSION

## POWER ISOLATION TRANSFORMERS

## LIGHTNING PROTECTION SYSTEMS

### ALSO AVAILABLE:

- **Environmental Monitors**
- **Cable Management Systems**
- **Power Systems Thermal Scans**

# Raised Access Flooring

SYSTEMS



#### PRODUCT OFFERINGS INCLUDE:

- Full Range of Load-Rated Floor Systems
- Rails, Ramps & Stairs
- Underfloor Cleaning, Re-leveling, & Layout
- Carpet Tiles & Anti-static Coverings
- Floor Cut-outs & Floor Box Inserts

#### FOR USE IN:

OFFICES | CALL CENTERS | DATA CENTERS  
CLEAN ROOMS | NETWORK OPERATION CENTERS

See why customers rely on Computer Sites, Inc. to layout, install and maintain their raised access floor systems. CSI can help you maximize the functionality of your most expensive floor space. We offer a variety of solutions based on years of experience in the raised access floor industry.

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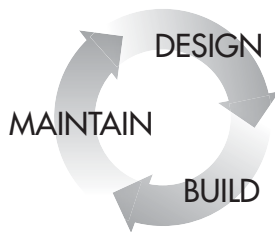
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# Raised Access Flooring

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## RAISED ACCESS FLOORING

- Concrete filled welded steel panels with 1000 lb, 1250 lb, 1500 lb, 2000 lb & 2500 lb concentrated load ratings
- All steel panels with 1000 lb, 1250 lb & 1500 lb concentrated load ratings
- Wood core panels rated at 1250 lbs concentrated load
- Aluminum panels for MRI/medical & manufacturing applications where non-ferrous materials are required

## UNDERSTRUCTURE OPTIONS

- Bolted stringer
- Corner-lock for office applications
- Freestanding (up to 17" finished floor height)

## FLOOR COVERING OPTIONS

- High pressure laminate
- Conductive vinyl tile
- Electro-static discharge (ESD) carpeting
- Bare surface

## ACCESSORIES

- Panel lifters & wall mount panel holders
- Grommets, cut-out trim & air-seal grommets
- Ramps, aluminum handrails, aluminum guardrails & steps

## FLOOR MAINTENANCE

- Replacement panels to fit existing systems
- Airflow perforation panel for added growth
- Complete underfloor and flat surface cleaning

## ALSO AVAILABLE:

- **Air Diffusers**
- **Underfloor Cable Trays**
- **Electrical Boxes**

# Air Conditioning

S Y S T E M S



## PRODUCT OFFERINGS INCLUDE:

- Down-flow & Up-flow Designs
- Air, Glycol-cooled and Chilled Water Systems
- Free Cool Options Available
- Stand-alone Room Units
- Ceiling Mounted Units
- Portable/Emergency Units
- System Upgrades & Expansion
- System Inspection & Service

Computer Sites, Inc. provides knowledgeable, experienced air conditioning experts that understand the complexities and challenges of cooling in live data centers. We're committed to delivering outstanding service that no other company can equal.

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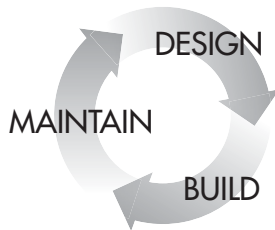
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# Air Conditioning

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### AIR CONDITIONING SYSTEMS

- **Glycol/Water Cooled Systems:** 3 to 30 Ton cooling capacity units  
Application: Cool weather environments allowing free cool function
- **Air Cooled Refrigerant Systems:** 3 to 30 Ton cooling capacity units  
Application: Hot weather environments
- **Chilled Water Systems:** 3 to 30 Ton cooling capacity  
Application: Building based tower systems

### MULTIPLE APPLICATION UNITS

- Down-flow units for data center and clean room applications
- Up-flow units for switch room and electrical room applications
- Ceiling mounted units for telecom closet and spot cooling applications
- Portable units for emergency or temporary cooling applications
- Industrial units for utility room and factory floor cooling applications

### FEATURES

- Humidification/De-humidification systems
- Redundant, direct drive fans
- High air flow with large coils
- Dual refrigeration circuits for redundancy
- Free cool coil option on glycol cooled units
- Microprocessor based control systems

### ACCESSORIES

- Stand alone steam humidifiers
- Independent air filtration systems
- Independent monitoring systems

### MAINTENANCE & SERVICE

- 24 x 7, full service, maintenance programs
- Customized programs to fit customer needs and applications
- National, accredited partnerships for full service and emergency response

### ALSO AVAILABLE:

- **Particulate Count Measurements**
- **Air Balancing Service, Air Flow Analysis**
- **Hot Spot Management**



# Fire Protection

S Y S T E M S



## PRODUCT OFFERINGS INCLUDE:

- Fire, Smoke and Gas Detection Systems
- "Clean Agent" Fire Suppression Systems
- Halon Replacement
- System Upgrades & Expansion
- System Inspection & Service for License, Permit, & Certification
- Early Warning Air Sampling Systems

In many cases, it may be impossible to recover data and systems damaged by fire and water. Don't find out too late that you need a fire system or that your present fire system is outdated or in need of repair. Computer Sites, Inc. can help you by protecting your data, data center and infrastructure. We offer the assurance that only a specialty contractor can offer.

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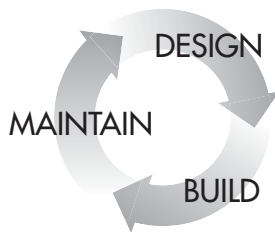
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### CLEAN AGENT GAS FIRE SUPPRESSION SYSTEMS

- FM-200 does not deplete stratospheric ozone
- Approved for use in "normally occupied" spaces
- Protecting over 100,000 facilities in more than 70 nations
- Does not leave behind oily residues, particulates, water, or corrosive materials
- Activated by "state of the art" addressable fire detection systems

### EARLY WARNING AIR SAMPLING SYSTEMS

- Air sampling systems can give advanced notification hours before a fire occurs
- Air sampling monitoring points can be placed inside critical electrical cabinets
- Use of air sampling systems reduces the chance of activating water sprinkler systems that protect sensitive electronic equipment

### PRE-ACTION WATER SPRINKLER SYSTEMS

- Sprinkler lines over the Data Center are "water-free"
- Sprinkler lines are constantly supervised for leaks using air pressure
- Sprinkler lines are filled with water only when fire alarms are activated in the Data Center
- Activation of pre-action water sprinkler system automatically notifies the local Fire Department

#### ALSO AVAILABLE:

- **NFPA Semi-Annual Fire Inspections**
- **Portable Air Sampling for Spot Checks, Odor Identification**
- **Graphic Panel Updates**

# Maintenance

## PACKAGES



### **GENERATOR**

- Enforcement of warranty term coverage
- Factory extended warranties
- Remedial coverage, factory contracts
- Response coverage 24 x 7

### **UNINTERRUPTIBLE POWER SUPPLY (UPS)**

- Enforcement of warranty term coverage
- Factory extended warranties
- Remedial coverage, factory contracts
- Response coverage 24 x 7

### **BATTERY SYSTEMS**

- Preventative maintenance contracts
- Load testing
- Battery replacements, individual or strings
- Response coverage 24 x 7

### **POWER DISTRIBUTION UNITS (PDU)**

- Preventative maintenance contracts
- Heat gun analysis
- Response coverage 24 x 7

### **RAISED ACCESS FLOORING**

- HEPA-vac cleaning
- Above and below surface cleaning

### **AIR CONDITIONING**

- Preventative maintenance contracts
- Remedial contracts
- Enforcement of warranty term coverage
- Leak detection testing
- Response coverage 24 x 7

### **FIRE SYSTEMS**

- National Fire Protection Association (NFPA) inspection contracts
- Testing and certification of fire extinguishers
- Remedial contracts
- Response coverage 24 x 7

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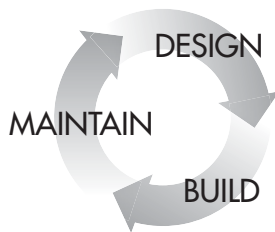
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### **GENERATOR MAINTENANCE**

Computer Sites, Inc. offers a complete package of service on any make or model of generator. All services from warranty coverage to preventative maintenance calls are conducted by certified field engineers. Factory extended warranties (purchased with the unit) covers all parts and labor, (excluding consumable items) for the term of the contract. Preventative maintenance visits, which include minor and major services, can be scheduled to fit your needs. Also offered is load bank testing which is done based on field analysis or by request, regulatory or other requirement or recommendation.

### **UNINTERRUPTIBLE POWER SUPPLY MAINTENANCE (UPS)**

Computer Sites, Inc. offers full remedial coverage of any brand of UPS. All parts (excluding batteries) and labor are covered during the scheduled preventative maintenance visit and any emergency call. This coverage, combined with an optional battery failure plan, is the most comprehensive package available. All plans can be custom quoted to meet each individual customers needs.

### **BATTERY CABINETS**

Computer Sites, Inc. offers a variety of solutions including full battery matrix testing and coverage. The optional battery failure plan includes complete battery replacement if warranted. A complete custom maintenance package can be provided to fit your budget.

### **POWER DISTRIBUTION UNITS MAINTENANCE (PDU)**

Computer Sites, Inc. offers a full remedial coverage of a PDU along with preventative maintenance coverage. The remedial coverage covers all parts and labor 24 x 7. Preventative maintenance coverage includes an annual heat scan of the unit along with current flow analysis. Custom coverage plans can be provided.

### **FLOOR MAINTENANCE**

Computer Sites, Inc. offers periodic maintenance of raised floor in computer rooms to reduce the risk of equipment and/or environmental hazards. Maintaining your floor not only increases the life span of the floor but it also improves your corporate image. We offer exterior hardware cleaning, surface cleaning along with sub-floor cleaning. An initial consultation is provided free of charge so we may customize a program to fit your needs.

### **AIR CONDITIONING MAINTENANCE**

Computer Sites, Inc. offers full coverage on all brands and types of air conditioning units. We have full remedial packages that include preventative maintenance visits along with all parts and labor. We also have preventative maintenance frequencies that can be tailored to fit your requirements. Full remedial coverage or preventative maintenance layered with 24 x 7 response ensures your system reliability.

### **FIRE SYSTEM MAINTENANCE**

Computer Sites, Inc. offers full remedial and National Fire Protection Association (NFPA) inspection coverage for all fire systems. NFPA semi-annual fire system inspections can be satisfied along with 24 x 7 emergency response coverage in the event of system failure.

# Services



## SERVICE OFFERINGS INCLUDE:

### POWER & ELECTRICAL SYSTEMS

- Survey PDU's and power panels to determine potential problems
- Phase balancing
- Fueling generators
- Updating power panel schedules (Mapping)
- Assessing power requirements
- Infrared scanning

### RAISED ACCESS FLOOR SYSTEMS

- Cleaning
- Floor cut-outs
- Re-level and repair existing floor systems
- New and used parts for existing floor systems

### AIR CONDITIONING SYSTEMS

- Air flow analysis
- Static air surveys
- Re-balancing room temperatures
- Removing hot spots
- Install turning vanes to maximize air flow
- Particulate counts

### FIRE PROTECTION SYSTEMS

- Perform semi-annual inspections
- Re-engineer existing fire systems
- Certify fire extinguishers
- Portable air sampling systems
- System audits
- Gas replacement

### CONDITION MONITORING SYSTEMS

- Environmental conditions including temperature, humidity and noise level
- Equipment such as generators, UPS, PDU, air conditioning, and fire systems
- Water detection

### EMERGENCY RESPONSE

- Portable/Temp power
- Portable/Temp cooling
- Facility clean-up and restoration

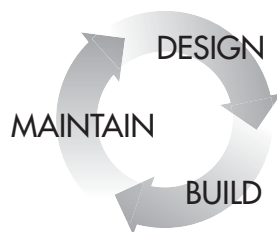
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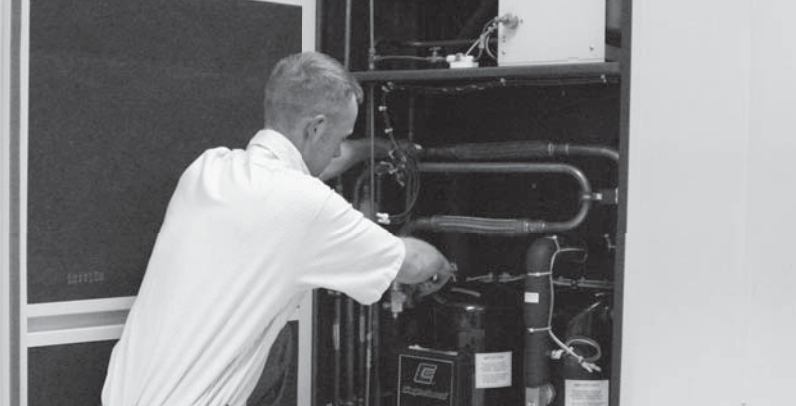


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## POWER DISTRIBUTION

Providing specialty power for today's new computers, routers and blade servers is becoming increasingly critical. Power needs in a data center demand reliable, redundant and stable power sources. Often considered a costly and confusing problem for IT departments, Computer Sites, Inc. provides a variety of services to help you take control of your power needs.

## RAISED FLOOR

Raised access flooring is the foundation of a functional, state of the art, data center. Maximizing the functionality of your most expensive floor space is vital. Computer Sites, Inc. offers a variety of solutions to help you correct issues relating to your floor space.

## AIR CONDITIONING

Being able to control the data center's environment with regard to temperature and humidity are key components of a reliable and stable room. Advances in computer hardware have led to additional demands on your air conditioning. Computer Sites, Inc. has anticipated these changes and developed new design models to meet your needs. We can help you regain control of your site and offer solutions for both near term and future requirements.

## FIRE PROTECTION SYSTEMS

The fire system over a data center is a key component to safe guard against catastrophic loss of data. Losing data or systems by fire and water is an expensive and time consuming event. Computer Sites, Inc. understands this concept and will help you maintain this essential component of your data center. We offer a number of services that will keep your system working properly and limit the risks associated with faulty alarms, outdated designs or an improperly maintained system.

## MONITORING

What do you do when things go wrong? Who can you rely on to handle your company's emergencies? Computer Sites, Inc. offers a variety of methods to monitor and detect immediate or escalating problems in your data center. We give you coverage on a 24 x 7 basis. In many cases we will be coordinating and dispatching a response team to your location before you are even aware of a potential problem.

## ENVIRONMENTAL

Technology advancements in this field can help any IT department forecast potential problems before they become a reality. Computer Sites, Inc. uses the latest technologies including portable air sampling systems, particulate count measurement, infrared electrical inspection and air flow analysis. Call Computer Sites, Inc. to discuss these early warning techniques.