

DATA CENTER

INFRASTRUCTURE SUPPORT BUILDINGS

Data centers are a critical asset that is protected with a robust and reliable support infrastructure made up of power subsystems, uninterruptible power supplies (UPS), backup generators, ventilation and cooling equipment, and building security systems. It is crucial to keep these systems protected, and RDI Enclosures & Systems can assist with customized prefabricated options to safeguard your operational equipment.

All of our buildings meet or exceed state and national codes, along with state certifications

Speak to our team of experts

(630) 773-4900



WHAT CAN YOU EXPECT?

- Single point of contact throughout the entire duration of your project
- All optional features and equipment installed and tested at our facility before shipping to your location
- All buildings can be customized to meet your particular needs
- Integration of your custom equipment
- Delivered fully assembled or in sections

COMMON APPLICATIONS

- Cloud Data Storage
- Data Security
- Service Continuation
- Power Distribution
- Back-up
- Server Rooms
- Recovery
- Colocation
- UPS
- Generator Buildings
- Network Rooms
- Computer Rooms

WHAT SETS US APART

Full Turnkey Services

We have the facility and capabilities to handle everything from designing in-house, project management, on-site installation, and any post-project requirements.

We solve problems that matter.

From data centers to mining, transportation to power, we are trusted by engineers to protect critical equipment systems from the elements and time.

We have cross-industrial expertise.

We specialize in systems across industries, giving us experience and insights that add value to every customer project.

We're in it for the long-term.

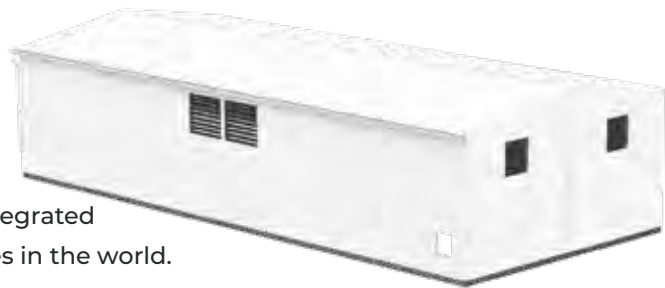
The systems we protect are built to last—so are the buildings we make to protect them and the customer relationships we build.



OPTIONAL FEATURES

- Battery Racks
- VFDs
- Power Supply
- Server Racks
- Cooling
- Fire Protection
- Power Distribution
- Cable Management
- Colocation Cabinets
- Skids, Bases, & Floors
- Computer Floor
- Lightning Protection

Data Centers can vary in size anywhere from one small room for smaller operations to one or more larger buildings in order to accommodate the critical equipment. Auxiliary buildings are also vital for key components such as diesel generation, uninterruptible power solutions (UPS), and data center monitoring. RDI has successfully installed buildings integrated with equipment to support the leading data center companies in the world.



BENEFITS OF PREFABRICATED BUILDINGS

Configurable design - Depending on the project requirements, modular buildings, modified shipping containers, basic structures, and on-site buildings can be configured to support your floor space and operational requirements.

Expandability - Prefabricated buildings can quickly be expanded to accommodate additional equipment as your project needs grow. This offers flexible solutions that enables companies to save both time and money.

Speed of deployment - With a single point of contact, your materials can be sourced, buildings are pre-manufactured, and your equipment can be installed and tested prior to delivery. This, in turn, saves time on construction and deployment.

PREFABRICATED CONFIGURATIONS

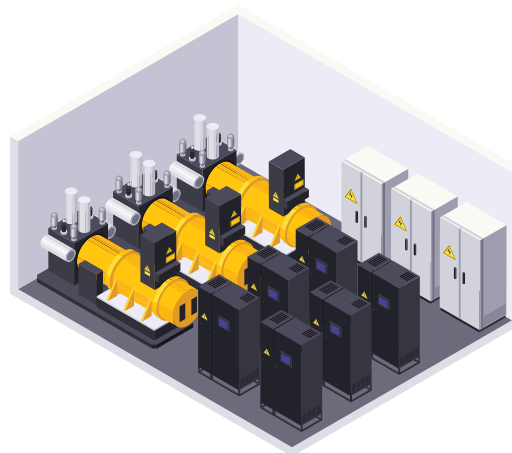
Building only - The structure of a building is manufactured in a controlled environment off-site and then shipped to be integrated with equipment and systems at your location.

Semi-prefabricated - The components of a building are completely prefabricated with power and cooling and tested in advanced before deployment.

Fully prefabricated - All components are completely self-contained in a single building with IT, power, cooling systems, and optional customer equipment that can be shipped and quickly connected to network and power utilities.

TURNKEY SERVICES

- On-site Inspections
- Measurements
- Custom Configurations
- Demand Planning
- Equipment Incorporation
- Shipping & Logistics
- Delivery & Installation
- Maintenance
- Repairs
- Technical Support
- Building Expansions
- Modifications
- Full Assembly & Testing
- Scheduled Deliveries



EQUIPMENT INTEGRATION

If you are looking for minimal downtime after installing your building, you can supply your equipment to be integrated in the building process for easy connection and start-up after your building has been delivered. Incorporating your equipment not only minimizes downtime, but is also a cost-effective option that eliminates for any post-delivery installation. In a matter of months, your building will be delivered and ready to operate.

All equipment, whether on the floor or mounted on the walls, is properly secured, connected, and tested at our facility prior to shipment to verify the equipment is running properly and to reduce any complications at the installation site.

We have experience integrating everything from diesel generators, control systems, ventilation, & more to provide our customers with more flexibility to provide a solution tailored exactly to their specifications.

OUR **PREVIOUS PROJECTS**

POWER DISTRIBUTION CENTERS FOR DATA CENTER SUPPORT

In 2020, RDI was tasked to rapidly manufacture 16 power distribution centers (PDC) for one of the largest data center companies in the world. Our time-frame had been set to construct one building every week, each pre-wired with lights, outlets, ventilation, and door alarms which were conveniently wired for quick connection at the job site. These 55' modular PDC's were shipped, off-loaded, and installed in one day for equipment installation.



CHEM-FEED BUILDING TO CONTROL EMISSIONS

Another project to support data centers involved a total of 24 modified shipping containers complete with installed equipment that was provided by the customer. The main purpose was for air cleaning control at the site for the data center campus. These buildings contained air cleaning equipment and the electrical control cabinets that supported the standby generators. This particular site also needed to make sure that the generators did not create air pollution and the buildings were also utilized to house specialized equipment. Once the equipment was packaged inside the prefabricated structure, it was delivered to the customer site to be quickly connected running quickly.



WE MEET CHANGING DEMANDS

Companies that have started employing modular data centers and support buildings have learned that, unlike traditional designs, prefabricated solutions can be engineered to meet specific requirements. This means that such structures can be made to fit into the desired location where their secure framework is located. We know that the data center space is continuously evolving with demands capable of changing rapidly. That's why our services aim to minimize the complexities that come with creating the support for data centers. Our experts will work with you from start to finish. You provide us with your preferences, specifications, and requirements and we'll come back with you on the best design possible that meets your needs. Besides being flexible and scalable, these buildings are also cost-effective, making them ideal for companies seeking prefabricated solutions.



OUR SERVICES

- Design
- Engineering
- Fabrication
- Construction
- Equipment Integration
- Delivery
- Installation
- Support Services

UTILIZED BY

- Telecommunications
- Financial Institutions
- Retailers
- Education
- Social Networking Services
- Government Agencies
- Cryptocurrency Operations

INDUSTRIES WE SERVE

- Automotive
- Contractors
- Distribution Centers
- Energy
- Engineers
- Medical/ Dental
- Mining
- Assembly Plants
- Oil Drilling/ Oil Sands
- Prisons/ Correction Facilities
- Security
- Steel Mills
- Trucking
- Universities
- Waste/ Sanitation
- Manufacturing
- Recycling
- Communications
- Data Centers
- Transportation

HOW WE DO IT



We put advanced engineering and systems expertise to work

That allow us to deliver fully-integrated solutions that solve our customers unique problems.



With total dedication to our customers

Our customers count on us any time of day or night to help them solve problems, meet deadlines and flex as needed to get the job done.



Cost-efficiently and for the long-term

From best-in-class welding and materials to supply chain redundancies, everything we make is designed to last while still saving our customers time and money.

THE RDI DIFFERENCE

- Prefabricated in a controlled environment
- Installation of wiring, plumbing, and all required connections prior to delivery
- "Drop over" existing equipment
- Future expansion of building length
- Full restoration options if needed

MATERIALS & STRUCTURE


- Customizable outer & inner materials including: Brick, Aggregate Stone, Aluminum, and Corrugated Metal
- Exposed fastener wall panels with Kynar® 500 Coating
- Standing-seam, galvalume steel roof
- 4" deep wall structure with insulation
- Welded post & beam structure



GET IN TOUCH

 (630) 773-4900

 rdienclosures.com

 1025 W Thorndale Ave.
Itasca, IL 60143