



Bahnsen
Environmental Specialties
An EMCOR Company

What can Bahnsen Environmental Specialties do for you?

Bahnsen Environmental Specialties meets the demanding needs of the research, development and product testing industries by designing, manufacturing, installing and servicing a wide range of leading-edge controlled environmental chambers.

Call **800.688.5859** or Visit **www.eschambers.com**



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An EMCOR Company

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An Equal Opportunity Employer
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Superior Protection for
Environmentally Sensitive Assets.

CUSTOMIZED SOLUTIONS FOR TODAY'S DEMANDING STORAGE REQUIREMENTS

Completely controlled environmental solutions

Founded in 1972, Bahnson Environmental Specialties (BES) designs, manufactures, installs and services a diverse line of controlled environmental chambers that maintain precise conditions for a wide array of research, development, and manufacturing activities. All chambers are designed to satisfy the most stringent field performance tests. Our single-source turnkey solution includes pre-sales support; architectural,

mechanical, and electrical/controls design; project management, field installation, field testing/validation, and service. We provide superior quality materials and exceptional workmanship. We also upgrade and retrofit existing chambers to meet new or future requirements. **It all adds up to end-to-end services that ensure maximum performance and reliability with an ongoing return on your investment.**



Bahnson, Inc. is a subsidiary of EMCOR Group, a Fortune 500® company. We combine financial strength with unmatched bonding capabilities and an award-winning industry-leading safety program that has resulted in safety performance that's 5-10 times better than the national average. Add Bahnson's wide array of powerful capabilities and extensive experience, and you have the right company and team to meet all your facilities requirements, while helping to ensure an ongoing return on your investment.

Economy, energy-efficiency, and space-saving convenience

BES offers a complete line of temperature and humidity control solutions for today's demanding research needs. These units combine reliable performance with a range of advanced features that make them a superior choice for a diverse array of applications.

WRST: Optimum uniformity for cold and warm stability chamber studies

BES has been designing, manufacturing, installing and servicing walk-in stability chambers, some of which were the largest multiple chamber installations in the pharmaceutical industry. These chambers, which can exceed 5,000 square feet, are designed for efficient air flow, guaranteeing superior temperature and humidity uniformity, regardless of loading conditions or size.

WRS Series: A single chamber, a wide range of testing conditions

BES's warm room series can create a range of temperature and humidity levels within a single chamber (standard temperatures from +10°C to over 70°C). Varying in size from small step-in units to large stability storage areas with multiple air handlers, these units meet the complex demands of those seeking a high-quality testing environment in a single unit.

CRS Series: Low-temperature precision and dependability

Available in sizes from small step-in units to high-bay warehouse storage chambers, BES's cold room series provides uniform and dependable temperatures between -50°C and +10°C with single-point or variable set-point temperature control. They are the right choice when you need a low-temperature environment that combines maximum flexibility with advanced reliability features.

FAS Series: Exceptional cleanroom capabilities with optimum temperature and humidity control

Designed for the cold and warm extremes typically found in today's bio-pharmaceutical operations, our HEPA-filtered FAS Series can maintain temperatures from -20°C to +40°C. The chambers offer close tolerance temperature and humidity uniformity, as well as an assurance of a certified cleanroom environment with minimum airborne particulates and microorganisms. The result is consistently optimum cleanroom environments with precise control capabilities.

DRS Series: Dry rooms tailored for specific pharmaceutical and industrial applications

Working directly with clients, BES's engineers develop turnkey dry room solutions for use in research laboratories and production areas. Dry rooms are designed to maintain temperatures from +20°C to +40°C, and maintain relative humidities to less than 1% (supply air dewpoints as low as -60°C). For those who need a customized solution backed by end-to-end services, our DRS series offers the specific capabilities you need with dependable, energy-efficient operation and ongoing value.

LT Series: Ultra-low temperature, high-volume freezers

BES's LT Series of unique cascade freezers meets the growing need for ultra-low temperature storage down to -80°C. All products are custom designed to specific size, temperature and electrical control specifications, with considerable energy and space conservation compared to more traditional storage methods of the past. Typical storage includes small vials, plates, bulk drums, and canisters of biological samples and vaccine product—an ultra-low temperature freezer with a full range of advanced features, optimum flexibility and maximum reliability.

ES2000 Series: Reach-in chambers for your low-volume pharmaceutical and industrial test applications

This series includes four standard sizes, from 12 to 144 cubic feet, offering a wide variety of temperature and humidity capabilities. Standard temperature capabilities range from +2°C to 70°C, with controlled humidification from 10% to 96% RH. Special request capabilities include temperatures to -30°C and up to +90°C, and relative humidity levels less than 10%, including ICH stability, shelf life studies, incubators, refrigerators and other product testing and/or stability storage. Chambers can also be designed to meet classified storage requirements (Class 1 Div 2), cycling/stress test requirements or other special design requirements.

For today's customers with a variety of demands, ES can provide custom engineered solutions to your very specific needs. As examples, possibilities include integrated small and large product storage areas (entire labs or suites), special atmosphere environments, custom shock testing / blast chambers, and even mobile conditioning environments. ES will build to suit, and welcomes the call on your special application.



Economical, space-saving units that combine maximum capacity and multi-temperature capability with energy efficiency, storage flexibility, cost savings, and reliable product protection.

SERVICES

- Pre-Sales Support
- Architectural Design
- Mechanical Design
- Electrical/Controls Design
- Project Management
- Field Installation
- Validation & Qualification
- Preventive Maintenance & Calibration
- Emergency Service & Repair
- Technical Support
- Parts Distribution

MARKETS

- Biotechnology/Healthcare
- Government
- Industrial
- Pharmaceuticals
- Biorepositories
- Agricultural Sciences
- Research & Development
- Distribution Centers/Warehousing





End-to-end services

A PASSION FOR SAFETY AND QUALITY

Safety and quality are engrained in the fabric of our culture. In addition, EMCOR's *Be There For Life, ZERO Accident Program* has helped EMCOR companies achieve safety performance that is **5-to-10 times better than the national average**. That's just one reason why you can rely on BES for consistently safe, on-time project delivery.

BES offers a complete package of services for BES chambers as well as other chamber manufacturers and laboratory equipment. Located throughout the country, our service technicians have the training and expertise required to ensure that your equipment is always performing at its best.

Validation & qualification: Ensuring consistently high performance

BES validates and commissions BES chambers as well as other chamber manufacturers and laboratory equipment. We can generate a standard protocol, customize one to your specific requirements, or execute your protocols and follow your standard operating procedures. Whichever you choose, we will ensure that the equipment is operating according to your exact specifications.

Technical Support: Experts on call

When you have problems or questions, our technical support experts can work with you to resolve even your most pressing issues. We also offer 3-day intensive hands-on training, giving your staff the knowledge and skills necessary to optimize your chambers' performance and productivity.

Emergency service & repair: There when you need us

We provide around-the-clock emergency service across the nation. In most locations, we can have a technician at your site within eight hours. Our cGMP-trained technicians will arrive with the right tools and parts to resolve your problem and quickly get your units back in full operation.

Complete parts inventory: Your single source for all your parts

BES maintains a large inventory of critical spare parts for the most common serviceable issues. We can also tailor a list of the spare parts you need on hand to keep your equipment running smoothly. Add expedited shipping and 24/7/365 online ordering, and you have the most convenient and reliable place to go for all your parts needs.

What can Bahnson Environmental Specialties do for you?

Bahnson Environmental Specialties provides a single-source, turnkey solution from small reach-in to large walk-in environmental chambers; pre-sale support, architectural design, mechanical design, electrical/controls design, construction, field testing/validation and service is all provided by one company. **To find out more, just call us today.**

Call: 800.688.5859 **Visit:** www.eschambers.com



Call today to learn more about the many ways our experts can help you manage your facilities smarter and more effectively than ever before.
We're here for you.

Bahnsen Environmental Specialties.
Serving the Community
Where We Live, Work, and Play.

Taking KidSafety to the Streets™

As part of EMCOR's Taking KidSafety to the Streets Program, BES is proud to serve the community through its work with the National Center for Missing & Exploited Children. By prominently displaying missing children's posters on our company and personal vehicles, and by responding quickly when a child is reported missing within facilities where we work, we help recover missing children and promote child safety.



Bahnsen, Inc. is part of EMCOR Group, Inc.

A Fortune 500® company, EMCOR Group, Inc. (NYSE:EME) builds, powers, services and protects the sophisticated and dynamic systems that create facility environments — such as electrical, mechanical, lighting, air conditioning, heating, security and power generation systems — in virtually every sector of the economy for many of the world's most successful organizations. By planning, installing, operating, and maintaining a wide range of facilities and systems, our 24,000 employees at over 170 locations worldwide help our clients increase productivity and optimize their businesses.

To learn more about EMCOR companies:

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