

HVAC Products

Offered in Partnership with Ellis & Watts

The Westinghouse Solution

Westinghouse and teaming partner Ellis & Watts Global Industries are uniquely suited to support refrigeration upgrades and replacement projects.

From chillers and air conditioning units to dampers and air filtration, Westinghouse and Ellis & Watts offer a complete portfolio of HVAC solutions for nuclear power plant applications. Regardless of complexity of the installation or the breadth of technical and quality requirements, a replacement HVAC unit can be provided to meet your needs and optimize your refrigeration system's performance.

Advantages of a Complete Product Offering

Installation & Specification Requirements		
Off-the-Shelf Commercial	Modified Commercial Unit	Application-specific Selection
Few install space limitations and simple install path → modularity not required	Some installation space limitations and/or somewhat complex install path → some modularity in design	Moderate-to-severe install space limitations and/or complex install path → high-degree of modularity needed in design
Section VIII components only	Sec. VII and/or Sec. III	Sec. III components
Non-seismic or II/I Seismic	Seismic or non-seismic	
All options available for both non-safety and safety-related applications		

One-Stop Engineering & Manufacturing

With a wide range of HVAC solutions and 70 years of experience, Westinghouse and Ellis & Watts are experts in refrigeration. Our added value includes the ability to optimize solutions for each customer that can include fleet-wide similarity, component replacement programs, and sustainable refrigerant strategies

This industry-leading team is unique with all design, manufacturing and nuclear qualifications being performed in-house.

<https://info.westinghousenuclear.com/westinghouse-parts-business>

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Westinghouse Parts Business

Solutions for a Range of Applications

Off-the-Shelf Commercial

For applications which are relatively straightforward, which have few limitations in the location of installation, and/or which have few nuclear requirements, we will leverage a long history and successful working relationship with Dunham Bush or utilize other commercial suppliers

- A1 refrigerant standard, with A2L available based on customer preference
- Available Safety-related via commercial grade dedication

Modified Commercial

In replacement applications which have increased complexity and nuclear requirements, Westinghouse and E&W can leverage the successful working relationship and the product catalog from Dunham Bush or other commercial suppliers. These units are modified with E&W from the factory configuration to meet customer requirements:

- Modifications can include modularity to facilitate disassembly and re-assembly in the installation location, replacement with a Section III condenser, or other features
- A1 refrigerant is standard
- Safety or non-safety related digital controls (NUC-Magnum) are available
- Often specified for 50.69 RISC-3 applications, also available for safety-related and non-safety related applications

Refrigerant Classifications		
	A1	A2L
Toxicity	Non-toxic	
Flammability	Non-flammable	Mildly flammable
Common Examples	R-513A, R-515B	R-454B, R-454C
Application Considerations	Newer A1 refrigerants may be less efficient than older alternatives, potentially requiring larger equipment for equivalent performance.	Generally higher efficiency than modern A1 refrigerants; flammability considerations may require additional system design measures.

Application-Specific Selection

When the replacement is highly complex, Westinghouse and E&W can offer a unit that is designed, manufactured, and tested from the ground up for the specific application. These units are highly customizable with a robust construction suitable for a long life in demanding nuclear power plant applications. As these units are application-specific, they can be designed to match the existing seismic footprint and interfacing plant system connections.

- A1 refrigerant is standard
- Safety-related digital NUC-Magnum controls or analog controls based on customer preference
- This approach is preferable when a plant has a complex installation path or severe space limitations in their final location as units can be designed to be modular to facilitate disassembly and re-assembly in place.
 - Fewer physical plant modification required as the chiller can be designed around existing interfaces with the plant and auxiliary systems, translating to overall cost savings
- Section III heat transfer components available.
- Available for both non-safety and safety-related applications

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