

# AREVA Now Offers Custom Ellis & Watts Chillers

Reliable chillers are critical to maintaining safe and efficient operations. From a supplier you trust, AREVA is now offering Ellis & Watts custom chillers to provide temperature controlled fluid for use in critical environmental and process cooling applications.

With our expertise in your plants, processes and quality requirements, AREVA stands ready to assist you with the right solution to meet your chiller needs while minimizing your installed costs. With more than 60 years of experience, Ellis & Watts is an industry leader in providing new and replacement HVAC systems and specialty components, including the design, qualification, manufacture and testing of custom chillers.

## Ellis & Watts Liquid Chillers can be designed for:

- Air-cooled or water-cooled condensing
- A wide variety of fluids with supply fluid temperatures down to -100°F
- Analog, relay-based controls to address qualification, cyber security, EMI/RFI concerns or digital control systems
- A variety of compressor technologies to optimize efficiency, reliability and life-cycle cost objectives
- Operation at ambient temperatures from -40°F to +140°F
- Various materials of construction to meet structural integrity, corrosion resistance, weight and cost requirements
- Seismically qualification per IEEE 344
- Environmentally qualification per IEEE 323
- Various power supply, controls and piping options
- Hazardous duty applications (explosion proof)
- EMI/RFI suppression with verification testing
- Documented performance and proper operation through factory testing at full and part-load conditions
- Transportation, rigging and installation constraints with modular construction



## Proven Chiller Performance

Ellis & Watts has successfully met stringent liquid chilling compliance in projects for the global nuclear installed base, new build construction, NASA and the U.S. Navy.

### Control Systems

Ellis & Watts offers equipment with a variety of component devices and system controllers. For environments or applications where controls qualification, cyber security or EMI/RFI emittance are areas of concern, Ellis & Watts offers analog, relay-based controls. In fact, Ellis & Watts can provide an entire control system that is free of software that may even be “hidden” within devices like actuators and valves.

Where desired, Ellis & Watts can provide equipment with a variety of direct digital controls for individual components as well as for the complete system.

### Obsolescence Management

Age, operating conditions and the durability of components can lead to reliability concerns. As components age, Ellis & Watts has maintained the documentation, knowledge and capabilities to provide replacements that are compliant with the original plant design requirements.



## Regulatory Compliance

Complete units and components can be provided with compliance to:

- ASME AG-1
- ASME NQA-1
- IEEE 323, IEEE 334 and IEEE 344
- 10CFR50 Appendix B
- Heat Exchangers to ASME Section VIII or ASME Section III
- Compressors to ASME AG-1 Section RA
- Motors to ASME AG-1, IEEE 323, IEEE 334, IEEE 344 and NEMA MG-1
- Motor wiring to IEEE 383
- Motor insulation to IEEE 117
- Instruments to ASME AG-1 Section IA
- Compliance to IEEE 7-4.3.2 Standard Criteria for Digital Computers in Safety Systems of Nuclear Power Generating Stations
- Compliance to IEEE 603 Standard Criteria for Safety Systems for Nuclear Power Generating Systems



## You can rely on AREVA to provide you with innovative solutions that:

- Increase safety and efficiency
- Resolve emergent issues quickly
- Reduce plant operating costs
- Address obsolescence and reliability issues

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