

Ocean Spray Cranberries, Inc.

Process Cooling System • Middleboro, MA

About Ocean Spray, Inc.

Ocean Spray is an agricultural cooperative owned by more than 800 cranberry growers in Massachusetts, Wisconsin, New Jersey, Oregon, Washington, British Columbia and other parts of Canada, as well as more than 100 Florida grapefruit growers. Ocean Spray is North America's leading producer of canned and bottled juices and juice drinks, and has been the best-selling brand name in the canned and bottled juice category since 1981. Ocean Spray cooperative headquarters is located in Lakeville, Massachusetts. Fruit receiving stations and processing and bottling plants are located throughout North America.



Project Summary

Trane recently replaced two older chillers that had failed with a 500-ton Trane Model CVHE chiller which includes a variable frequency drive to maximize chiller efficiency. During the replacement process a Trane Rental Services chiller was provided to satisfy critical HVAC loads such as in the data center.



A Trane CenTraVac™ chiller installed at Ocean Spray facilities.

Systems Installed:

- 500-ton nominal, 325-ton design Trane Model CVHE CenTraVac™ centrifugal chiller
- 75-ton Trane IntelliPak™ rooftop
- 125,000 CFM of Trane T-Series™ rooftop air handlers
- Trane Tracer Summit™ building automation system
- Tracer Summit Web server

Keeping a Sweet Business Cool

Ocean Spray Inc. is an agricultural cooperative owned by more than 800 cranberry and 126 grapefruit growers in North America. Trane helped Ocean Spray meet the needs of a new production facility and upgrade the chiller plant at their headquarters office building.

Challenge

Ocean Spray selected their Middleboro, Massachusetts, facility to produce sweetened dried cranberries or SDCs. The SDC production process required upgrades to building infrastructure to include a new chiller plant that would provide 25-degree F chilled water, air handling equipment and controls. Ocean Spray wanted a single source provider that would act as an owner consultant working with the design team. This same provider would supply and install the HVAC and process chiller equipment to include controls. The desired result was to have this single source provider be directly responsible to Ocean Spray—reducing the complexities and cost overruns involved in conventional construction processes.

Solution

Ocean Spray selected Trane to fill this role. Working with Trane's Providence, Rhode Island, office, Ocean Spray met its objectives. The project included a 500-ton nominal, 325-ton design Model CVHE CenTraVac™ centrifugal chiller, a 75-ton IntelliPak™ rooftop system for the product packaging area and three T-Series™

rooftop air handlers to supply 125,000 CFM of conditioned air to the processing area. The systems were integrated into a Trane Tracer Summit™ system that provides critical information to the process PLC controllers and Ocean Spray's internal Ethernet system through a Tracer Summit Web server.

Results

Bob Lowder, Manager Capital Engineering & MRO Programs, Ocean Spray, said, "Trane provided outstanding service throughout the Middleboro SCDC Project. The excellent support and service continued right through equipment commissioning and validation.

Trane is now maintaining the equipment as part of an annual maintenance agreement.

"Trane's performance was exceptional in all facets of this important Ocean Spray project; equipment selection, project management, construction management, controls integration and commissioning. This HVAC and process cooling equipment is a critical part of our manufacturing process. The equipment and systems Trane installed were of the highest quality and the work was done on time and under budget. We are now reapplying this design at other new SDC production facilities, with the continued support of Trane."

"Trane provided outstanding service throughout the Middleboro project. The excellent support and service continued through commissioning and validation."

—Bob Lowder, Ocean Spray



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