

Systecon Solution

Since the bottom line was cost savings, and flexibility for the future, Systecon designed a VariPrime™ pumping package. A VariPrime™ package will be very efficient, and adaptive to the changes in load and flow due to expansion. Ave Maria University enjoyed lower first costs, because Systecon is initially building this system for their present needs only.

Additionally we designed even greater efficiencies into the system for the future addition of a north chiller plant, by way of profile pumping. Profile pumping is a time-tested method of sequencing chiller plants. One chiller plant (north or south) takes care of the base load while the other chiller plant trims the load. This design will be utilized because it will use less energy.

Because some buildings will be located far from the chiller plant, Systecon realized that there would be a tremendous amount of head being placed on the main pumps to satisfy load requirements for each building. The solution was to utilize booster packages for each building that was considered to be far from the chiller plant. This design will make it simple for the main chiller plant pumps to operate at less pressure.

Project Conclusion

Ave Maria University, a newly built University located near Naples, Florida was in need of a chilled water pumping system capable of adapting to future needs while being a cost efficient system. Systecon provided a VariPrime™ system with a profile pumping orientation.

Specifications

South Chiller Plant

A.) VariPrime™ Chilled Water System

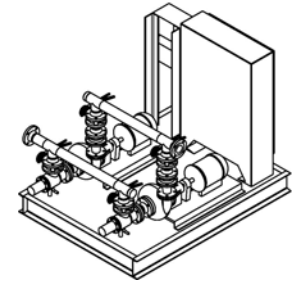
Current Flow – 5,400 GPM
Future Flow – 10,800 GPM
Pumps and VFD's
(3) 250 hp current
(2) 250 hp future

B.) Condenser Water System

Current Flow – 9,000 GPM
Future Flow – 18,000 GPM
Pumps
(3) 150 hp current
(2) 150 hp future

C.) 5 Total Booster Packages

Utilized for each respective building



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