



## Duramed Pharmaceuticals

Pleasant Ridge, Ohio

### Manufacturing Upgrade

**Problem** Upgrade required to increase the reliability of Duramed's climate-sensitive production of hormone-based pharmaceuticals.

**Resolution** The Optimira team pursued a multi-pronged approach to address the necessary upgrade requirements. With the goal of achieving long-term cost reductions for the 850,000 square foot manufacturing facility, several capital investments were made. Utilizing a design/build approach, the following projects were implemented: a comprehensive retrofit of the HVAC system, the installation of an electrical demand control system, the installation of a propane back-up system, and installation of highly sensitive and advanced technical control systems to ensure precise temperature and humidity limits.

**Project Description** Optimira completed a \$3.0 million improvement of Duramed Pharmaceutical's Pleasant Ridge manufacturing facility's heating, ventilation, air-conditioning system and propane back-up system.



**End Result** The CY2001 project is expected to save Duramed \$150,000 per year over a ten-year period while achieving immediate improvements to its production, research, and development areas. By maximizing utility performance and minimizing energy costs, the collaboration between Optimira and Duramed focused on enabling Duramed to continue to provide advanced pharmaceuticals at competitive prices.