

Robotic Milking Dairy Farm

Site Scale: 16,000 sq ft – 130 Cow Dairy Facility Location: Kutztown, Pennsylvania USA

Installer: Corner View Automation Bradley D. Biehl bradley.biehl@verizon.net







Control Demands

Control climate within barn facility via large cooling fans, motorized curtains, exhaust fans, and cooling sprinklers. Additionally control interior lighting and add security features along with full remote access of all systems via iPhone and iPad devices.

Added Control Results

Animal comfort was increased through automated management of environment. Energy management of lighting and fans reduced energy use throughout 24-hour operations periods. System alarms send email alerts if product temperatures exceed optimum parameters. Surveillance capability allows for remote video monitoring of operations.

Application Spotlight

Large cooling fans keep cows cool and comfortable in the summer heat. Fans are programmed to maximize cow comfort and minimize energy use. Motorized curtains extend the length of the barn. Curtains are programmed in HAI software to open and close to maximize the climate for cows. Fluorescent lights controlled by HAI UPB dimmers are automated to reduce energy while ensuring adequate lighting levels for at least 18 hours per day to achieve the highest milk production. Outside security lights and office lights are also on UPB control. Additional outputs are used to control exhaust fans and cooling

sprinklers. Security features include zones for roll-up driveway doors, office doors, and windows. Milk cooling alarms are also tied into one of the HAI security zones. Email alerts notify when milk temperature is higher than specification alerting any cooling equipment issues. IP security cameras are accessed and monitored with Snap Link. HAI allows the farmer to turn on lights, view cow activity from IP cameras, check barn temperature and make adjustments. Everything is monitored and controlled with Snap Link and Snap link mobile on all of the farm employees iPhones and iPods.

Installed Products

Products	
OmniPro II Controller for Structured Wiring Enclosure	Indoor/Outdoor Mini Dome IP Camera
Omni Console with Built-in Speaker/Microphone	600W UPB Non-Dimming Switch
Flush Mount Kit	UPB Powerline Interface Module with Cable
24V 40VA Transformer	Extended Range Indoor/Outdoor Temp Sensor