

UNITED MEDICAL ENTERPRISES

THOMSON, GEORGIA, UNITED STATES

INTRODUCTION

In late 2020 United Medical Enterprises, a manufacturer of medical and dental supplies, acquired the former Hollander Sleep Products plant in Thomson to triple its production of face masks to nearly 1.6 million per day by April 2021. Today the former bedding plant in McDuffie County houses United Medical's entire manufacturing operation, leaving its former production facility in South Augusta as a warehouse for raw materials and finished goods.

PROJECT DETAILS

Reliable Controls Authorized Dealer [SouthEast Automated Systems](#) installed a new Reliable Controls building automation system during a retrofit of the plant. A challenge of this project was the need to install extensive piping for communications. SouthEast Automated Systems took control of air-rotation units, air-handling units, a chiller, and an air-cooled water chiller with a range of Reliable Controls devices. A MACH-ProWebCom allows building owners to access and control the facility easily and cost-effectively over the internet. This unique controller combines a BACnet Building Controller, a BACnet Operator Workstation, and a powerful web server in a compact package no bigger than a typical controller. Its built-in workstation and web server reduced United Medical's capital expenditures by eliminating the need for workstation client software, license renewals, and fees for cloud services.

Nine MACH-ProZone controllers, each with highly scalable input and output capabilities, control nine small air-handling units, each connected to a SMART-Sensor EPD device. The SMART-Sensor EPD delivers a modern networked solution that allows building occupants to connect with up to 10 configurable parameters related to their space. A tenth MACH-ProZone controls a water-source cassette unit in the facility's IT room.

SouthEast Automated Systems integrated two air-cooled chiller controllers with the Reliable Controls system using five MACH-Pro2 controllers expanded with four MACH-ProPoint Input/Output modules. The MACH-Pro2 is a rugged, flexible, fully programmable BACnet Building Controller ideal for large rooftop equipment and midsize mechanical room applications.

SouthEast Automated Systems and Reliable Controls were pleased to help United Medical scale up production capabilities at its new plant in Thomson, particularly as the demand for face masks increased during the COVID-19 pandemic.

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MARKET SEGMENT

Manufacturing

PROJECT TYPE

Retrofit

INSTALLATION TYPE

HVAC

TOTAL AREA

19,324 m² (208,000 ft²)

PROTOCOL

BACnet

INSTALLED EQUIPMENT

5 MACH-Pro2™ controllers

4 MACH-ProPoint™

Input/Output Expansion Modules

1 MACH-ProWebCom™ controller

10 MACH-ProZone™ controllers

10 SMART-Sensor™ EPD devices

INTEGRATED EQUIPMENT

Trane Tracer UC800 Controllers

TOTAL SYSTEM OBJECTS

188

RELIABLE CONTROLS AUTHORIZED DEALER

