

# VAQUERÍA TRES MONJITAS

SAN JUAN, PUERTO RICO

CORPORATE

## OVERVIEW

*Vaquería Tres Monjitas is one of the two producers of fresh milk in Puerto Rico and the only one that is purely Puerto Rican owned. The company was founded in 1918 by a local family and currently produces fresh milk and dairy products, juices and fruit drinks, mixtures for milkshakes and ice cream, and also distributes refrigerated products for other companies. Tres Monjitas is an integral part of Puerto Rico's agricultural industry and employs more than 500 people.*

## PROJECT DETAILS

Reliable Controls Authorized Dealer UPM Group successfully installed a MACH-System™ into the new Tres Monjitas administrative office in San Juan, Puerto Rico.

The new building network uses a combination of EIA-485 and Ethernet along with a BACnet gateway to integrate third-party devices. UPM Group also installed four MACH-ProPoint expansion modules with universal inputs and outputs and connected them to a MACH-ProWebSys controller. Data and facility information sent to the MACH-ProWebSys is accessed through a third-party touchscreen graphical user interface. RC-Studio allows building operators to monitor and control the building automation system to optimize occupant comfort and operational efficiency.

Mechanical equipment controlled on the site includes a Midea variable refrigerant flow system connected to air handling units and a Danfoss variable-frequency drive. UPM Group was able to easily integrate all mechanical equipment using the MACH-System.

Reliable Controls and UPM Group are pleased to have been part of this project for Tres Monjitas. Special thanks are due to Jorge Ledon Webster for engineering assistance.

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### PROJECT TYPE

**New construction**

### INSTALLATION TYPE

**HVAC, variable refrigerant flow system**

### TOTAL AREA

**1,226 m<sup>2</sup> (13,200 ft<sup>2</sup>)**

### NETWORK

**EIA-485, Ethernet**

### PROTOCOL

**BACnet**

### BACNET

**Midea variable refrigerant flow system, BACnet gateway, Danfoss variable-frequency drive**

### EQUIPMENT INSTALLED

**1 MACH-ProWebSys™ controller  
4 MACH-ProPoint™ Input/Output expansion modules  
RC-Studio® software  
1 TSP-15-Celeron touchscreen**

### TOTAL SYSTEM POINTS

**105**

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**UPM Group**

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