

# OMG ULTRA PURE CHEMICAL

TUAS, SINGAPORE

WAREHOUSE

## CONTROLLING THE WAREHOUSE

The OMG Ultra Pure Chemical warehouse in Tuas, Singapore required upgrading to add air conditioning and temperature control to the existing chemical storage warehouse, in addition to adding a new clean room to be used as a copper process application lab within the warehouse area.

## PROJECT DETAILS

Reliable Controls Authorized Dealer, Vace Pte, Ltd., recently completed this project to upgrade the OMG Ultra Pure Chemical warehouse.

The warehouse was separated into six zones of which half the zones required control at different space temperature set points. The challenges faced on this project included trying to achieve and maintain different temperature set points for these zones, which was ultimately accomplished in part through using flexible and highly customizable Control-BASIC programming in addition to the MACH-Series controllers.

MACH-ProCom and MACH-ProPoint I/O controllers were used within the chilled water plant for sequence control, chilled water system failure monitoring, BTU calculation, and SMS alarm text paging. Two air handling units and a pre-cool air-handling and recirculation unit were used in for the copper process lab. Additionally, power meters were interfaced to the MACH system through MODBUS and a BTU calculation was applied for the chilled water plant.

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### PROJECT TYPE:

**Retrofit & New Construction**

### INSTALLATION TYPE:

**Chiller, HVAC, Laboratory, VAV,  
Power Monitoring**

### TOTAL AREA:

**20,000 m<sup>2</sup> (215,278 ft<sup>2</sup>)**

### EQUIPMENT INSTALLED:

**2 MACH-ProCom™  
1 MACH-ProSys™  
7 MACH-ProPoint I/O™  
6 MACH-Air™**

### NETWORK:

**Ethernet**

### INTEGRATION:

**Modbus**

### TOTAL SYSTEM POINTS:

**128 points**

### RELIABLE CONTROLS® DEALER:

**Vace Pte, Ltd.**

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