

KMG ULTRA PURE CHEMICALS

TUAS, SINGAPORE

INTRODUCTION

KMG's [Ultra Pure Chemicals](#) facility in Tuas, Singapore, required upgrading to add air-conditioning and temperature control to the existing chemical storage warehouse and to provide a new clean room for use as a copper-process application lab.

PROJECT DETAILS

Authorized Dealer [VACE](#) upgraded the building automation system for Ultra Pure Chemicals with Reliable Controls devices.

The warehouse was divided into six zones, three of which required control at different space-temperature setpoints. VACE achieved this challenge using the flexible, highly customizable programming capabilities of Control-BASIC language along with Reliable Controls controllers.

VACE installed two MACH-ProCom controllers, expanded with MACH-ProPoint Input/Output modules, in the chilled water plant for sequence control, failure monitoring, and alarm messaging. Two air-handling units and a pre-cooled air-handling and recirculation unit in the copper process lab are controlled by the Reliable Controls devices. Additionally, VACE used Modbus to interface power meters with the building automation system.

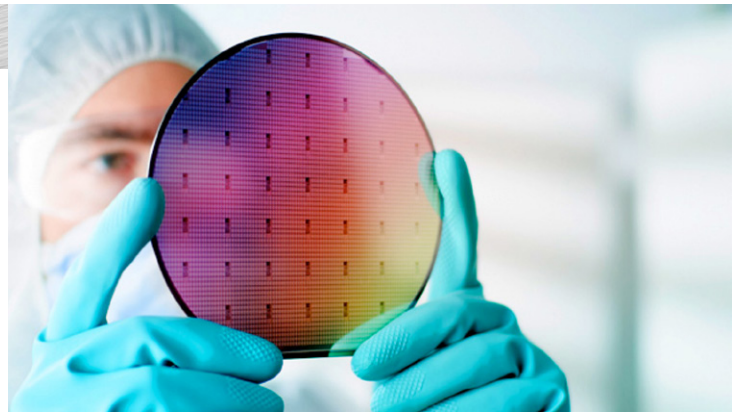
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MARKET SEGMENT

Warehouse

PROJECT TYPE

Retrofit and new construction

INSTALLATION TYPE

Boiler, chiller, CO₂ monitoring, fan coil unit, fume hood, heatpump, HVAC, laboratory, power, variable air volume, water monitoring

INSTALLATION TYPE

HVAC

TOTAL AREA

20,000 m² (215,278 ft²)

PROTOCOL

BACnet, Modbus

INSTALLED EQUIPMENT

6 MACH-Air™ controllers

2 MACH-ProCom™ controllers

7 MACH-ProPoint™ Input/Output expansion modules

1 MACH-ProSys™ controller

TOTAL SYSTEM OBJECTS

128

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