

KESTER COMPONENTS PTE, LTD.

BEDOK NORTH CHAI CHEE LANE, SINGAPORE

MANUFACTURING

WATER & AIR CONTROL

Kester Components Pte, Ltd., is a leading global supplier of assembly materials to the electronic assembly, component, and micro-electronic marketplaces. The Bedok North Chai Chee Lane location in Singapore meets the ISO cleanroom standard of a class 100K production and processing facility, and includes both retrofit and new construction elements.

PROJECT DETAILS

Reliable Controls Authorized Dealer, Vace Pte, Ltd., successfully completed a project for manufacturing facility Kester Components, Pte.

The networked hardware includes a MACH-ProCom with MACH-ProPoint IO for chiller sequencing for the chilled water plant, room positive pressure control, room humidity and temperature control, the make-up air handling unit, including off-coil temperature control and discharging air duct static pressure control, and clean room air-handling unit for discharging air temperature control. The MACH-Zone was used for production areas' general exhaust fan system control and failure alarm monitoring.

In terms of mechanical equipment, the chilled water plant consists of two air-cool chillers and chilled water pumps to ensure availability of sufficient chilled water at the required temperature for the air handling unit serving the production area, auxiliary offices, facilities plant and common areas. Additionally, a make-up air handling unit ensures availability of sufficient tempered outside air to the clean room air handling unit, the clean room air handling unit supplies the production area with desired discharge air temperature, the dehumidifier maintains the room humidity of the production areas, and four mechanical exhaust fans were also used.

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PROJECT TYPE:

Retrofit & New Construction

INSTALLATION TYPE:

Chiller, HVAC

TOTAL AREA:

3,000 m² (32,291 ft²)

EQUIPMENT INSTALLED:

**1 MACH-ProSys
 3 MACH-ProPoint IO
 4 MACH-Zone**

NETWORK:

Ethernet

TOTAL SYSTEM POINTS:

63 points

RELIABLE CONTROLS® DEALER:

Vace Pte, Ltd.

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