

# AL-BAQYAT AL-SALIHAT ASSOCIATION HOSPITAL

MOKATTAM, CAIRO, EGYPT

## INTRODUCTION

*Al-Baqyat Al-Salihat Association* is an Islamic charitable organization established by Alba al-Kahlawi, dean of Islamic and Arabic Studies at Al Azhar University Women's College, who was named one of the [500 Most Influential Muslims](#) in 2009 for her work on religion and women. The Association provides care in Mokattam free of charge for orphaned children and cancer and Alzheimer's patients; sponsors charitable missions for destitute, widowed, and divorced women; and sends medical convoys to provide care in villages and slums across Egypt.

## PROJECT DETAILS

Authorized Dealer [A to Z Engineering Solutions](#), the first Reliable Controls dealer in Egypt, installed a Reliable Controls system in the Al-Baqyat Al-Salihat Association hospital to control eight air-handling units and seven exhaust fans. A MACH-ProCom BACnet Building Controller, expanded with four MACH-ProPoint Input modules, achieves the optimum balance between form and function with its extensive network-routing ability, highly scalable inputs and outputs, and small size. A to Z connected six SMART-Sensor devices to the SMART-Net port on the MACH-ProCom to deliver a modern-sensor solution that allows building occupants to connect with up to 10 configurable parameters related to space. The MACH-ProCom also facilitates network communication between the hospital's local area network and Wi-Fi switch.

A MACH-ProView LCD controller connected to the Wi-Fi switch provides a number of attractive, high-resolution graphical interfaces to the building automation system that allow users to access, control, and monitor the comfort and energy in the building at a glance. Operators can configure and use unique EQUIPMENTviews that display information on HVAC equipment energy consumption, occupant comfort, and more.

A to Z used RC-Studio software to design, develop, and deploy the hospital's new building automation system in a short amount of time and on a limited budget. This easy-to-use BACnet Advanced Operator Workstation is the ultimate all-in-one engineering tool from Reliable Controls to help facility managers improve operational efficiency, increase comfort and engagement, and achieve their sustainability goals.

Alba al-Kahlawi passed away in 2021 after infection with COVID-19. A to Z and Reliable Controls are proud to help continue her legacy with our work on this project.

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**MARKET SEGMENT**  
Health care

**PROJECT TYPE**  
New construction

**INSTALLATION TYPE**  
HVAC

**TOTAL AREA**  
5,000 m<sup>2</sup> (53,820 ft<sup>2</sup>)

**PROTOCOL**  
BACnet

**INSTALLED EQUIPMENT**  
1 MACH-ProCom™ controller  
4 MACH-ProPoint™ input expansion modules  
1 MACH-ProView™ LCD controller  
6 SMART-Sensor™ devices  
RC-Studio® software

**TOTAL SYSTEM OBJECTS**  
94

**RELIABLE CONTROLS AUTHORIZED DEALER**



**A TO Z  
ENGINEERING  
SOLUTIONS**

Think Smart  Live Smart