

AEROPUERTO INTERNACIONAL EL SALVADOR

SAN LUIS TALPA, LA PAZ, EL SALVADOR

TRANSPORTATION

AIRPORT MODERNIZATION

The Government of El Salvador prioritized this modernization project in order to make the El Salvador International airport the best airport in Central America.

PROJECT DETAILS

MP Services of El Salvador successfully completed this Government-prioritized airport project, which impacts approximately two-million passengers per year.

The project was developed in two stages: first, six reciprocating chillers were replaced and the network architecture of the intelligent control system was modified, introducing RC-Studio software. Second, additional chillers were replaced and the existing systems were strengthened, installing more chillers for a total of 16 in the passenger terminal. In the cargo terminal, the central refrigeration equipment was installed along with a MACH-Stat.

The network was outfitted with 2 MACH-ProWebCom and 6 MACH-ProCom controllers distributed along the terminals. The system was divided into six separated areas, with their own chillers and associated air handling units. The MACH-ProCom integrated the chillers using BACnet[®], also creating a subnet with MACH-ProZone controllers for the control of water recirculation. In total, over 100 third-party elements were integrated into subnets of the MACH-ProCom.

Challenges included keeping the airport operational 24/7 during the required work, and one of the achievements was the replacement of equipment without interrupting air conditioning service. The end result of this project features a robust and reliable system with a projection of encouraging savings and a spectacular rate of ROI. An estimated annual savings of 3,765,548 kWh/year is expected, translating into a return on investment in under three years.

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PROJECT TYPE:

New Construction & Retrofit

INSTALLATION TYPE:

Chiller, Pumps

TOTAL AREA:

462,850 m² (4,982,117 ft²)

EQUIPMENT INSTALLED:

2 MACH-ProWebCom™

6 MACH-ProCom™

12 MACH-ProZone™

1 MACH-Stat™

NETWORK:

EIA-485, Ethernet

INTEGRATION:

BACnet[®], Modbus, SMTP

TOTAL SYSTEM POINTS:

1,600 points

RELIABLE CONTROLS[®] AUTHORIZED DEALER:

MP Service, S.A. de C.V. - El Salvador

