

SAN YSIDRO DMV FIELD OFFICE

SAN YSIDRO, CA, USA

GOVERNMENT

LEEDING THE WAY

The San Ysidro DMV Field Office is a LEED-Gold certified building erected to meet the construction benchmarks outlined in the state of California's Global Warming Solutions Act. To help lower electricity, heating, and cooling costs, the building employs solar rooftop panels, glazed windows, energy efficient fluorescent and high pressure sodium lighting, and skylights to increase natural lighting. Fifty percent of the building's construction waste was recycled.

PROJECT DETAILS

The system installed at the San Ysidro DMV Field Office is composed of two built-up AHUs. One MACH2™ with a single expansion card is used to control the various stages of cooling and heating, the economizer dampers, VFD fan speed, and building pressure control dampers. The AHUs feed twelve zones, all of which have dedicated MACH-Air™ controllers. Back office areas are serviced by a single package unit employed for a VVT system which is controlled by a MACH1™ controller. The VVT zones are controlled via eight MACH-Air™ controllers. Three package units are controlled by MACH-Zone™ controllers. SMART-Sensors™ are used for all space monitoring and have CO₂ sensors scattered throughout the building.

The customer counter area is fed by a unique underfloor VAV system that features approximately 50 adjustable nozzles that the workers can set to regulate their comfort. The underfloor system uses traditional MACH-Air™ VAV controllers and SMART-Sensors™. Balancing the underfloor system posed quite a challenge, but according Ryan Racette of L & H Airco, "The MACH-Air™ controllers worked perfect."

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PROJECT TYPE:
New Construction

INSTALLATION TYPE:
CO₂ Monitoring, VAV

TOTAL AREA:
14,636 m² (157,540 ft²)

EQUIPMENT INSTALLED:

- 1 ETHER-Link™
- 1 MACH1™
- 1 MODBUS-Link™
- 2 MACH2™
- 2 MACH2X™
- 3 MACH-Zone™
- 20 MACH-Air™

NETWORK:
EIA-485, Ethernet, LAN

INTEGRATION:
Modbus

TOTAL SYSTEM POINTS:
1,800 points

RELIABLE CONTROLS® DEALER:
L & H Airco

