



people & technology  
you can rely on™



Sustainability standards place a high demand on facility managers to maintain a delicate balance of energy efficiency, client comfort, and environmental impact.

The ease of use, versatility, and resilience of the Reliable Controls® MACH-System™ allows building operators to achieve that balance.

The Coral Leisure Centre is located in Wicklow, about a 40-minute drive from south of Dublin, Ireland. The facility has a 25-meter deck level swimming pool and a 9-meter learner pool, along with a sauna and a steam room. It also offers a fully equipped gymnasium and an aerobics studio.



<http://wicklow.coralleisure.ie/>

## building performance



Reliable Controls Authorized Dealer, LCS Control Systems, completed this project for the Coral Leisure Centre in Wicklow, Ireland, updating the building's air handling system and adding monitoring for gas and electricity usage.

The building automation system (BAS) controls the HVAC for the centre. The temperature and humidity levels in the swimming pool and changing areas are controlled to maintain the required setpoints through the air handling units' fan speeds, heating valves, and mixing dampers. Air velocity sensors are also mounted in the supply and return ducts to ensure that the required air changes per hour are maintained.

Gas and electricity meters are monitored to record the energy usage of the building, with alarms to show when the energy usage goes above the normal levels. A combination of line and bar graphs are used to display the information to the staff.

The MACH-ProWebSys™ controller allows staff to access the BAS through their web browsers. MACH-Stat™ and MACH-ProView™ controllers are installed for local monitoring and adjustments. External access to the system is also available to the staff for offsite monitoring.

MACH-ProView™ LCD with TRENDview





**PROJECT TYPE:**

Retrofit

**INSTALLATION TYPE:**

Air Handling  
Utility Metering

**EQUIPMENT INSTALLED:**

MACH-ProWebSys™  
MACH-Stat™  
MACH-ProView™  
MACH-ProZone™

**INTEGRATION:**

BACnet®

**NETWORK:**

EIA-485  
Ethernet/IP

**RELIABLE CONTROLS®**

**AUTHORIZED DEALER:**

LCS Control Systems



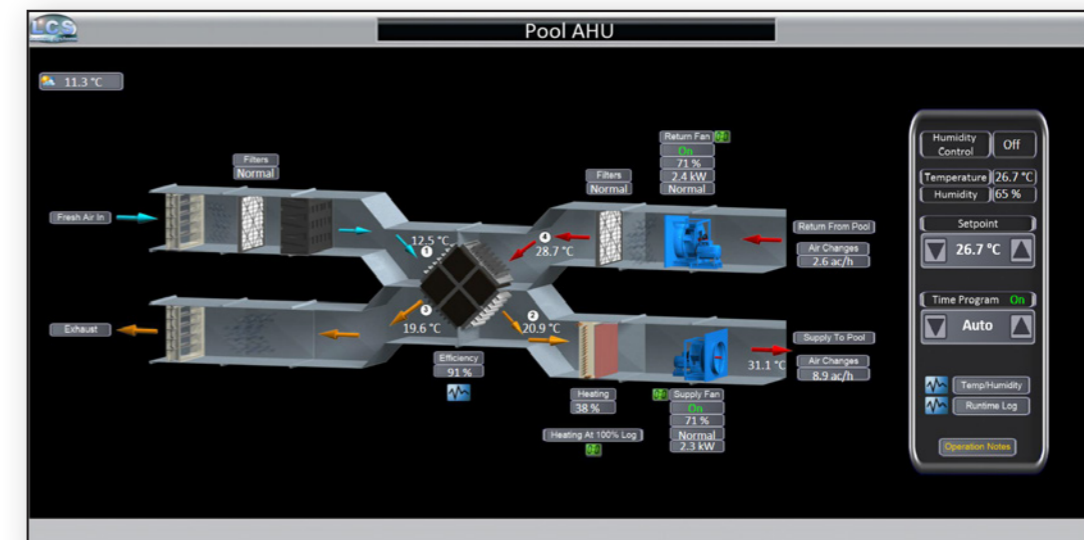
Coral Leisure Centre mechanical panels with Reliable Controls equipment as listed on left.



Energy Dashboard



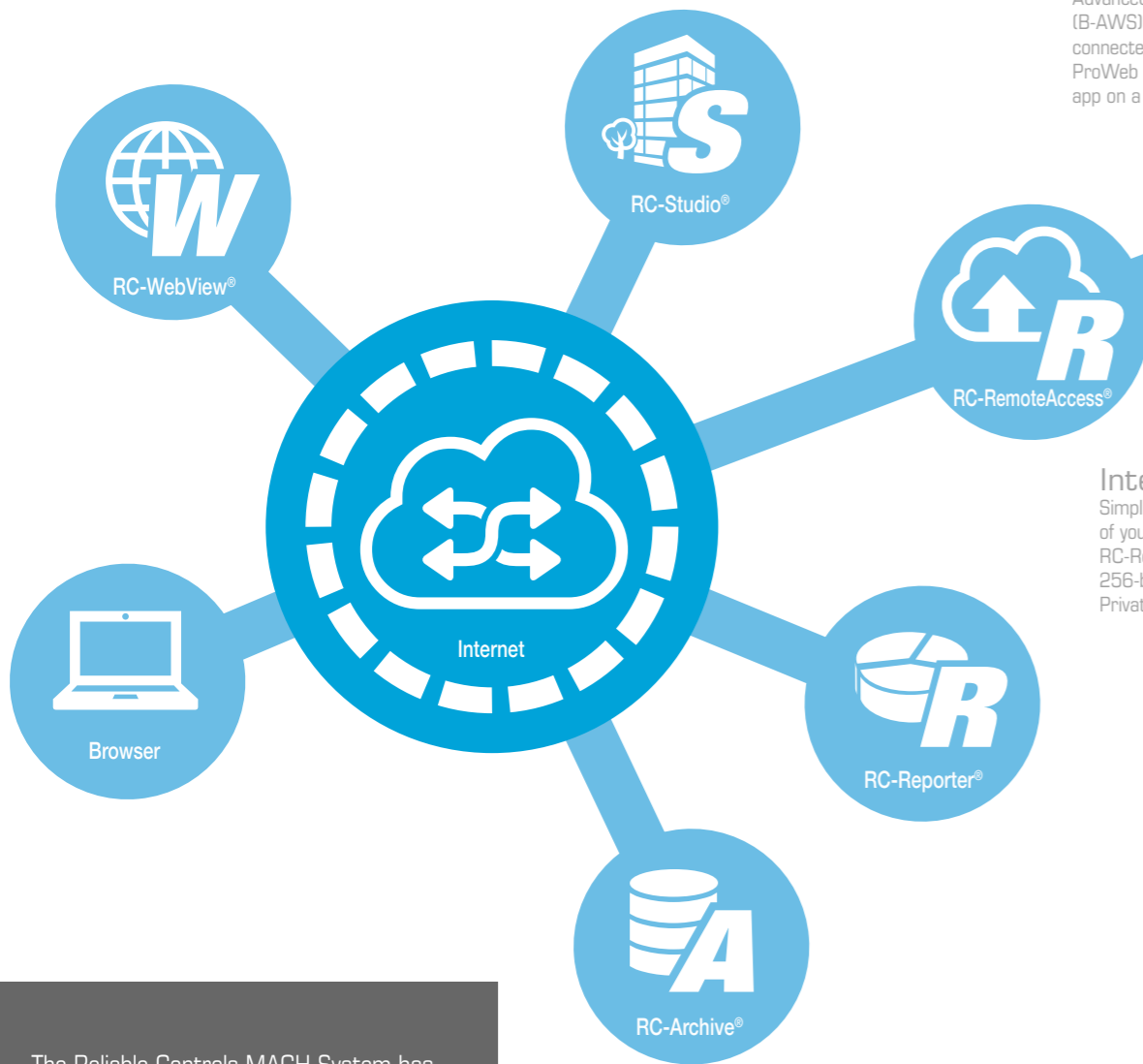
Metering Report Screen



Air Handler Unit Mechanical System User Interface



# network flexibility



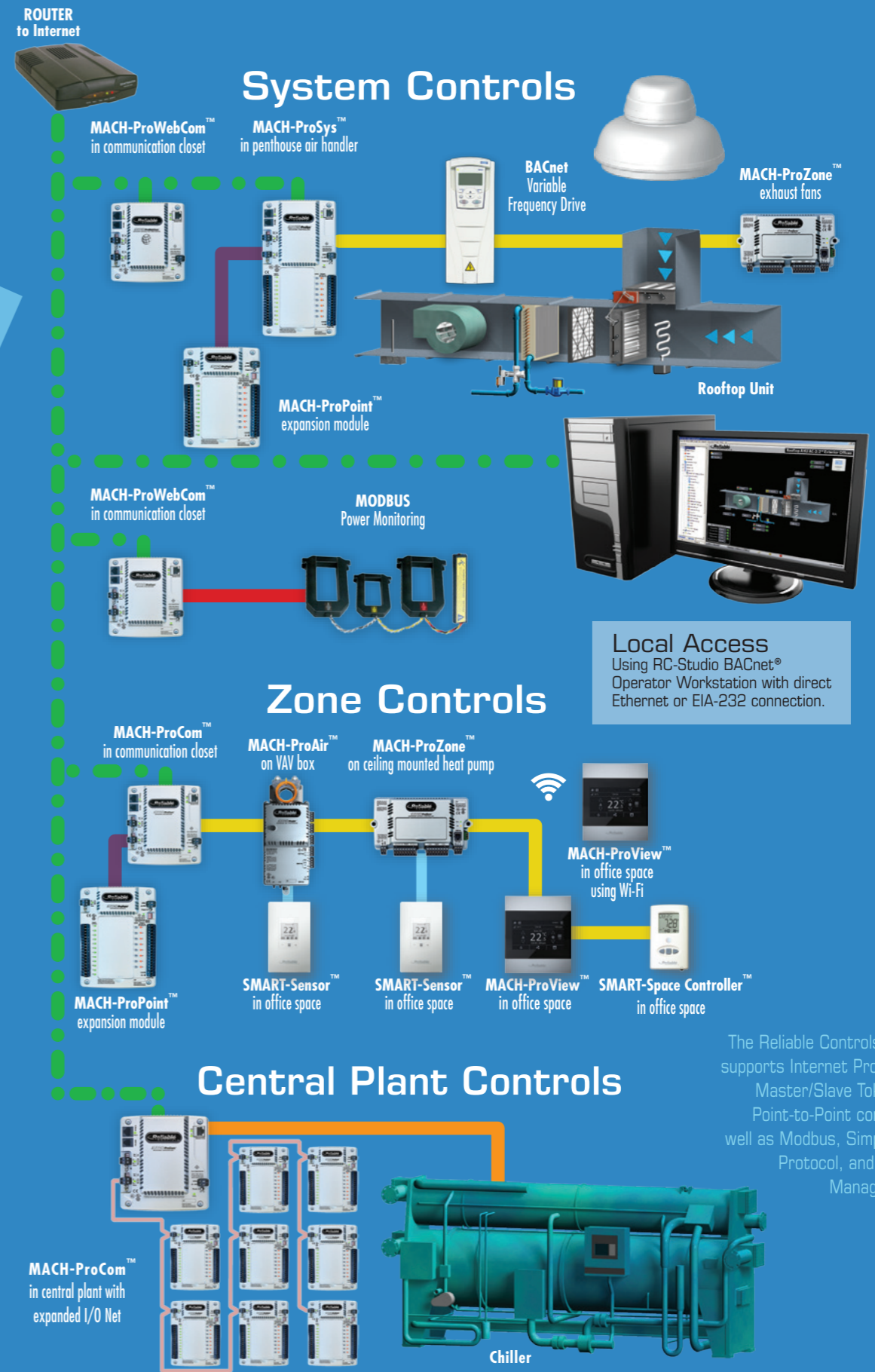
**Internet-connectivity**  
Monitor your buildings from anywhere in the world using RC-Studio, a BACnet Advanced Operator Workstation (B-AWS), any standard web browser connected to RC-WebView, a MACH-ProWeb controller, or the myControl app on a mobile device.

**Internet security**  
Simplify and improve the security of your Internet configuration using RC-RemoteAccess, our IT-friendly, 256-bit encrypted BACnet Virtual Private Network (B/VPN) software.

The Reliable Controls MACH-System has the flexibility to keep clients connected using the latest technologies, and the resilience to be effective for the life of the equipment controlled.

Every controller manufactured by Reliable Controls contains a BACnet® communication stack on board and is BACnet Testing Laboratory listed for quality assurance. Reliable Controls provides an industry-recognized, 5-year warranty on all programmable controllers.

Reliable Controls offers a complete controls solution that easily interconnects with intelligent building technology. The company's products communicate using robust, industry-standard networks and protocols. The Reliable Controls MACH-System has the ability to grow with a facility and has the flexibility to serve multiple simultaneous operators from numerous points of secure access.



The Reliable Controls MACH-System supports Internet Protocol, Ethernet, Master/Slave Token Passing, and Point-to-Point communications as well as Modbus, Simple Mail Transfer Protocol, and Simple Network Management Protocol.



**The Coral Leisure Centre is an excellent demonstration of the power, flexibility, and sustainability of the Reliable Controls<sup>®</sup> MACH-System<sup>™</sup>.**



25 meter deck-level swimming pool

LCS Control Systems has been a Reliable Controls Authorized Dealer since 2005, offering outstanding customer service and quality installations.