

ACIS

Integrated systems



Introducing ACIS

Powerful and intuitive, Airedale Controls Integrated Systems (ACIS) lets you manage smart cooling and other building services from any manufacturer, across multiple sites and communication protocols, in a single, integrated system. ACIS allows you to significantly reduce your operating costs and CO₂ footprint via remote 24/7 monitoring, better data and improved system operation.

Integration protocols



SNMP



Modbus®

LON board



TREND



Intelligent connectivity

Airedale Controls provides advanced technology and controls logic enabling building services to communicate intelligently for greater efficiency, precision and reliability.

Fully-programmable controllers specially developed by Airedale are linked with key components within the cooling system to facilitate powerful automation and modulating control.

ENABLING

- + 8.5% increase in chiller efficiency
- + Up to 70% more efficiency with EC fans at part load
- + Up to 98% free-cooling*

* London, UK

Easy communication is vital

For improved communication, ACIS is available with pCOWeb supervisory plug-in cards which make communicating with Airedale products purely a matter of logging onto the office intranet or the web.

Based on ethernet TCP/IP secure technology, BACnet and SNMP features, pCOWeb requires no proprietary cabling or monitoring software, little or no set-up on site and is pre-programmed with an IP address.

- + Drives down costs
- + 24/7 remote access and monitoring
- + Complete reassurance
- + Critical alarm handling

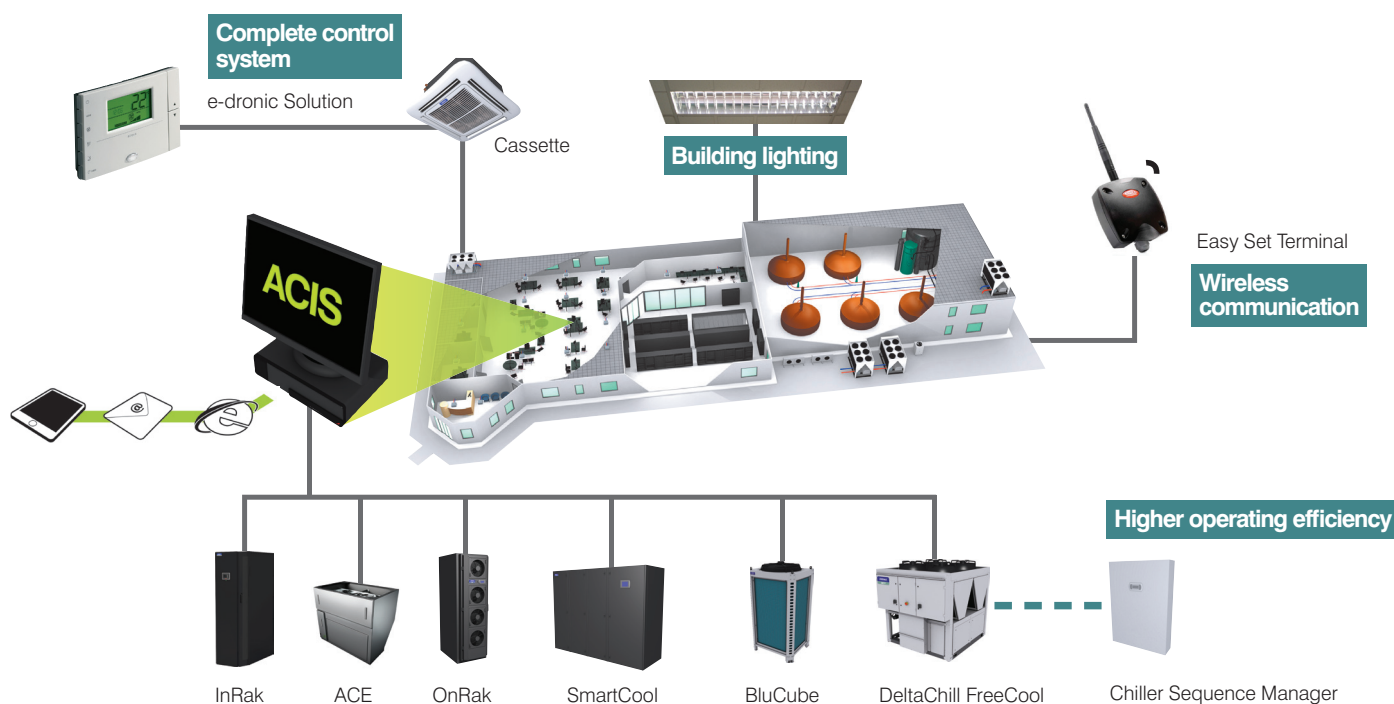
ACIS: For smarter, greener buildings

Efficient building performance requires effective control, operation and interaction of a sophisticated and complex number of systems, including climate control, lighting, security and energy management.

Specifically designed for each application, ACIS provides the critical management and integration of building systems, managed in a way that puts the operator in control of reducing power consumption and CO₂ emissions.

With the click of a button, valuable and intelligent information can be pulled back automatically and used for remote monitoring, supervision and control including 24/7 alarm indication; time scheduling and adjustment of temperature setpoints for system optimisation. The result is a highly efficient solution which maximises plant capability whilst minimising energy use through combined efficiencies.

- + Reduced operating costs
- + Remote 24/7 monitoring
- + Improved system operation
- + Better data, improving decisions



Iceland Frozen Foods

“Iceland Frozen Foods (IFF) has realised savings of £1.5m to date across 75% of the store portfolio implemented. The typical payback is between six and nine months per store, making the solution extremely attractive operationally and financially. Its flexibility has enabled IFF to implement a progressive implementation strategy, integrating existing Airedale equipment, as well as new and old systems from other OEMs.”

Graham Ireland,
Building Services Manager

EDF Energy

“Our new data centre has already achieved an average PUE of 1.46 and that’s before we’ve fully loaded it and implemented all the energy-saving innovations. When the data centre is operating in free-cooling mode using Airedale’s advanced free-cooling technology, the PUE has been measured at 1.36 and we expect that to reduce further as we install more equipment.”

Bob Finn,
Programme Manager

Defra

“Dynamic demand technology gives us a win-win situation, saving carbon emissions for “UK PLC” by displacing power demand at times of peak loading on the National Grid thus avoiding the need to call in carbon intensive back-up power generation mechanisms.”

Bob Crooks,
Defra’s Green IT Lead

dynamic demand

This Smart Grid technology is embedded in Airedale precision air conditioning and chiller products, creating a range of smart devices that will:

- balance energy demand
- improve company green credentials
- give you free upgrade of your controls technology



Precise humidity control

Humidifier

- > Essential for sensitive IT equipment
- > Improves uptime, system reliability and customer reassurance



30% saving in energy

Electronic Expansion Valve

- > Fast and precise control of superheat
- > For use in all types of unit
- > Can be retrofitted



Variable speed cuts operating costs

VFD Inverter

- > Improved system operation by exactly matching cooling load
- > Increases operating life
- > Reacts to load fluctuations



Reduced life cycle costs

Energy Manager

- > Intelligently analyses power consumption
- > Identifies areas to save energy
- > Factory installed or retrofitted



Higher operating efficiency

Chiller Sequence Manager

- > Optimal operation of multiple chillers
- > Delivers system stability and reliability
- > Expands with application



Complete system control

E-dronic Solution

- > Enhanced system integration
- > Reduced running costs
- > Integrates with chiller and BMS
- > Improved diagnostics



Wireless communication

Easy Set Terminal

- > Improved cable management
- > Easier installation
- > Simple retrofit

Airedale Controls – additional support

- Site-specific software program design that will manage everything in the air conditioning system, fine-tuning it for energy efficiency
- Remote monitoring facility – for customers with critical sites
- After-sales including chiller sequencing, network setup and integration
- Live demonstration and training centre

Airedale commitment to energy efficiency

As the largest UK chiller manufacturer, a pioneer in free-cooling technology and an industry leader in the development of rack level cooling, Airedale is committed to developing the most energy efficient precision air conditioning and chiller products on the market



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A **MODINE** Company