

Chiller Sequence Manager

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Super-intelligent, Multi-chiller Sequence Management

Connecting a Sequence Manager to two or more Airedale chillers is to add to the intellect of these already intelligent products. A super-intelligent control system designed to work at the sharp end of today's working environments where efficient, flexible, yet tight control is crucial, the Sequence Manager integrates air or water cooled chillers* into a single, seamless operating system. Comprising a master controller and two to eight slave chillers, the sequence system is pre-programmed to run as master/slave or run/standby.

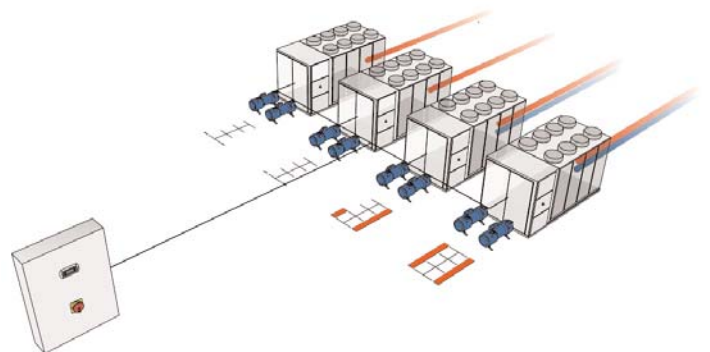
Increased Efficiency

Adaptive and proactive, the master controller will 'play' the cooling system for best-fit solutions. It will look for least run hours to ensure equal wear on compressors; provide a balanced load or cascade type loading for lower running costs and allow remote or time zone set point adjustment across the sequence. The controller will utilise free-cooling in order to maximise on energy efficiency. It will react to critical alarms by switching over to a standby chiller or in the event of network failure, change chillers to stand-alone operation. In run/standby mode, each chiller is self-controlling, but the master chiller elects which is to run or be on standby.

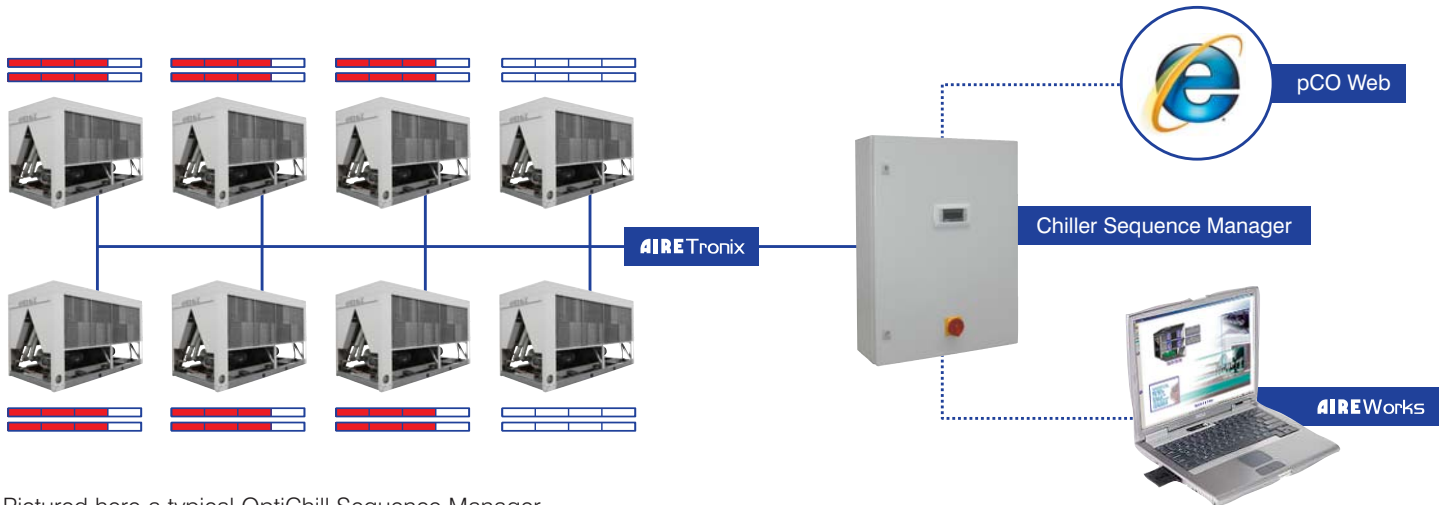
* Chillers of same compressor type, via an AireLan product network.

Key Benefits

- > Higher operating efficiency
- > Delivering system stability and reliability
- > Easily expandable as the chiller network grows
- > Master/slave or run/standby options
- > Stand-alone or connected to a BMS by using a third party serial interface card
- > Flexible sequencing schemes with single source start-up
- > Slave units are viewable from the chiller sequence manager display
- > Supplied pre-programmed, the control parameters can be individually customised
- > Site presence only necessary at commissioning



AireWorks BMS



Pictured here a typical OptiChill Sequence Manager

Modes of Operation:

- > Master/Save or Run/Standby
- > Free-cooling or DX modes with optional balanced or cascade loading
- > Return or supply water temperature control
- > Average sensor temperature control
- > Temperature sensors can be added for monitoring purposes, using customised software
- > By utilising customised software, chillers which are not connected on the AIRELAN network can be rotated using digital outputs to turn on/off
- > Time zone scheduling

BMS Networking Options

- > TCP/IP
- > Data logging, sensors, hours run, alarms

TREND

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