AQUA AIR ENERGY SOLUTIONS LTD.

Representatives of High-Performance Airside Technologies in British Columbia

Airside Energy Recovery

Konvekta is a high-performance energy recovery technology that optimizes airside energy recovery using advanced control software and a numerical simulation based controller. With 1,500+ installations in Europe and approaching 50 installations in North America, each Konvekta system is 100% custom to achieve exceptional performance and reliability.

- Optimized custom control algorithms create intelligent, real-time performance monitoring with recovery effectiveness up to 90%
- Guaranteed energy recovery performance
- 'Design Phase' energy recovery performance summary and analysis that utilizes weather data specific to the installation location and performance that is evaluated on an annual term
- Works with decoupled supply and exhaust air systems to eliminate cross-contamination
- Applicable for LEED Credits
- High-efficiency coils that significantly reduce stratification and achieve nearly perfect counter-current flow
- Utilizes a centralized fluid distribution network that ties into heating and cooling building utilities to 'top-off' recovered energy at the centralized location. The net effect is a savings in air-handling unit cost, size, weight, and static pressure load on the fans since a single coil bank can meet the required heating and cooling demand
- Capable of inter-connecting multiple supply and exhaust air systems under a single controller to optimize energy recovery and heating and cooling distribution
- Space savings for new construction and flexible design capabilities that are ideal for retrofit applications
- New systems operating in Alberta and under construction in Saskatchewan

Website: www.konvekta-usa.com
www.konvekta.ch

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Precision Airflow Control

Phoenix Controls Corporation

Phoenix Controls is a precision airflow control system with a successful 30 year track record of reliability for critical control applications in Western Canada and across the World. Pioneer of state-of-the-art air valve technology, Phoenix Controls offers a wide range of products that offer building owners safe, consistent, and energy efficient airflow control year after year.

- Applications range from research and life-sciences labs to critical care applications for health care
- High-speed response to fume hood sash movements ensures airflow requirements are satisfied to ensure safe fume hood operation
- Pressurization control and monitoring solutions for hospital operating rooms, post-operation rooms and ICU's
- Flexible integration architecture and a full range of equipment including pressure monitors, fume hood controls, point exhaust controls, and custom programmable control modules
- Air valve metering technology maintains airflow independent of duct pressure fluctuations and the 20:1 turndown ratio maintains 5% accuracy at all operating points.
- Minimal maintenance. Best life-cycle cost system available.

Website: www.phoenixcontrols.com

Airflow Optimization

AIRCUITY®

Aircuity's OptiNet system is multiplexed air sampling system that senses a multitude of indoor environmental parameters to provide information on the Indoor Environmental Quality (IEQ) in a facility, which can help optimize airflow requirements. Aircuity's ability to monitor, control and report on indoor environmental parameters gives facility managers and environmental health & safety the ability to improve working conditions while achieving significant energy savings.

- Configurable platforms that range from vivariums and laboratories to commercial building applications and K-12 schools
- Data gathered for vivarium systems can be used for reporting requirements
- Complies with ASHRAE standards for testing and calibration for dynamic outside air control sensing systems

Website: www.aircuity.com

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