WILLIAMS™

ComforTRAC™

Variable fan coil matches real time load for ultimate comfort.

OPTIONAL UPGRADE

INNOVATION WITH MERIT

Every so often a concept or innovation comes along that significantly improves the performance and benefits of an established HVAC product or system. When considering hydronic fan coils - already one of the most cost efficient means for heating and cooling available - that innovation has just arrived.

ComforTRAC™ VARIABLE FAN COIL

With its customized components and innovative digital control, the ComforTRAC™ variable fan coil performs like no other traditional building comfort system on the market today. With the ability to recognize changing room conditions and adjust automatically, the ComforTRAC™ variable fan coil matches real time variable load in virtually any indoor environment and with any refrigerant for the ultimate in comfort. And since moving BTUs in water is a superior method to moving them in air, the result is continuous comfort control with lower system costs and greater energy efficiency than ever before.

The ComforTRAC™ variable fan coil is the demand controlled fan coil, offering variable CFM, GPM, LAT and dehumidification.

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CONCEPT

While a conventional hydronic system utilizing standard fan coils represents an excellent solution to the demands of many environments, the **ComforTRAC™ variable fan coil incorporates real time variable load control for the ultimate in comfort and cost efficient operation**. Through the use of fully modulating valves, ECM blowers, a high latent low flow coil design and innovative digital control, the ComforTRAC™ variable fan coil recognizes even the slightest changes in variable load and adjusts accordingly to maintain the desired temperature and humidity level at all times.

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FEATURES

The ComforTRAC variable fan coil incorporates real time variable load control for the ultimate in comfort and cost efficient operation.

DDC COMMUNICATING THERMOSTAT/CONTROLLER

ComforTRAC™ Logic Programmed variable capacity based on setpoint difference to actual room temperature and humidity combined with how quickly the space is being conditioned. Greatest comfort at the lowest cost.

- Temperature
- Setpoint
- Humidity

ECM MOTOR / BLOWER

- Infinitely variable 25-100%
- Slow ramp rate
- Low RPM wheel
- Required CFM at variable ESP
- 50% reduction in motor watts
- Quieter operation

TRACvalve™

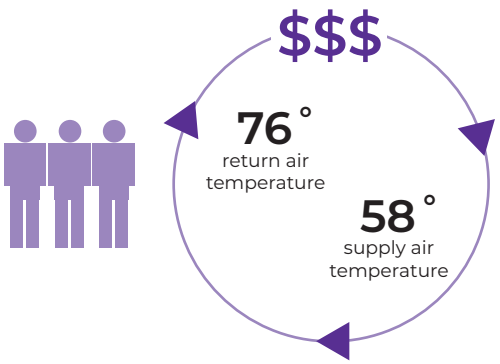
- Proportional 300:1 control valve
- Characterized port ball type
- Integral LAT sensor
- Infinitely variable 20-100%
- Self balancing
- Self cleaning
- Maintains Delta T

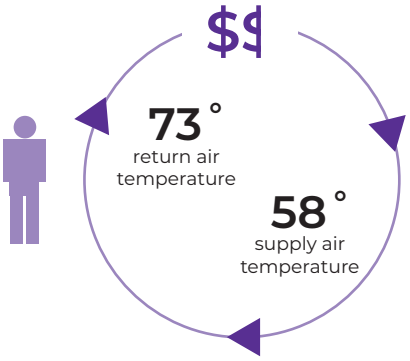
WILLIAMS CUSTOM COIL DESIGN

- Totally variable air or water capacity
- Low Flow using up to six row coil and custom circuiting
- Smaller pumps and pipe required
- Reduced demand 30-40%
- Pump HP reduction capacity better than 80%
- Higher latent capacity means better humidity control
- Positive dehumidification
- Greater comfort and control

IAQ

- Individual control
- Temperature and humidity
- Reduced drafts and stratification
- Less “ON-OFF” cycling
- Multiple air changes
- Increased efficiency options to MERV 13





SUPERIOR OPERATIONAL EFFICIENCY

By tracking variable load continuously and holding room temperature in real time, desired room comfort levels are more efficiently maintained. The result is superior comfort with a significant improvement in energy use and operational efficiency. With longer equipment run time and less cyclical demand, equipment operation – including the requirement placed on the central plant – is demand-controlled with less fluctuation.

COMFORT DRIVEN ENERGY EFFICIENCY

Since the ComforTRAC™ variable fan coil utilizes a high latent low flow coil design, energy use is minimized at all times during both the heating and cooling cycles. In addition, each ComforTRAC™ unit develops the ability to recognize the amount of energy needed to satisfy space requirements, thereby avoiding overheating and overcooling and providing unrivaled energy efficiency with increased comfort.

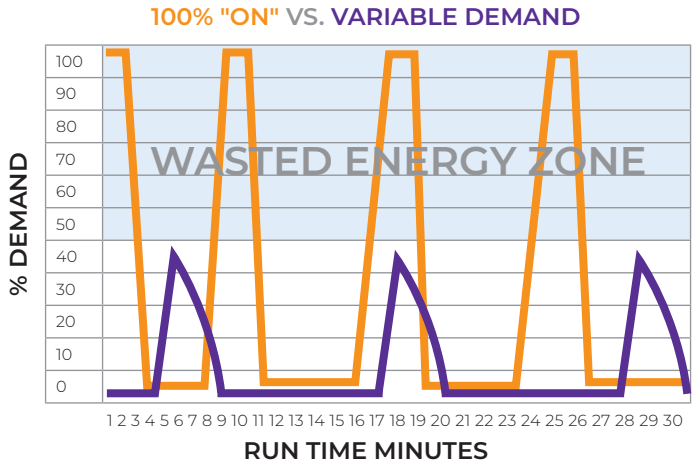
ComforTRAC APPLICATIONS

The ComforTRAC™ variable fan coil is specifically designed for virtually any indoor environment in which tracking and adjusting to real time variable load is critical. Ideal applications include classrooms, conference and meeting rooms, dorms, suites, common areas or any space where occupant demand for comfort is required.

ComforTRAC™ utilizes a high latent low flow coil design that minimizes energy use at all times during both the heating and cooling cycles.

ComforTRAC™ ADVANTAGES

- Performance is demand controlled and matches heating and cooling load in any climate.
- Energy consumption is also demand controlled as the load is continuously monitored and matched as needed. This allows the ComforTRAC™ unit to "sip" capacity from the main chiller system or boiler far more efficiently than conventional systems.
- Open Protocol-compatible. ComforTRAC™ can easily be incorporated into building automation systems (BAS). BTL certified BACNet.
- Coil design minimizes flow requirements and increases design Delta T which reduces pipe size and the associated sizing of mains and central system components.
- Leaving air temperature control (LAT) delivers comfort and quick response at the unit. The unit is continuously recommissioning itself to space and system variations.
- Self balancing and self cleaning capabilities eliminate flow control devices, strainers, and test ports saving capital and operating costs.



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