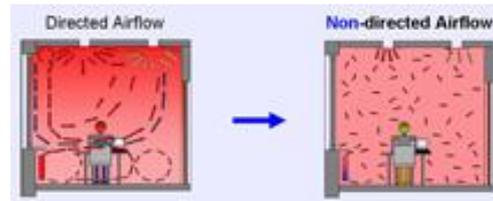Bauer Optimising System

In the already overcrowded HVAC energy efficiency / green building solution market we found a point of difference with the Bauer Optimising System which we believe will revolutionise the HVAC industry.

The Bauer Optimising System was developed in Germany in 1998 by Mr. Albert Bauer. The patented Bauer Optimising (BAOPT® OS) system minimises energy consumption of ventilation systems and air conditioning units while simultaneously increasing the overall comfort within a building. The control algorithm of BAOPT® OS creates a non-directed chaotic airflow in the room, resulting in a homogenous mix of supply air (fresh air) and indoor air.

The Bauer Optimising system acts similar to an auto pilot in an airplane. It monitors zone and duct pressure, temperature, humidity, IAQ and/or CO2 levels, supply & return damper positions, to determine the volume & quality of air needed in each respective to deliver optimum indoor air quality which maintaining the Bauer effect.

The building owner or operator will notice the low level of air conditioning noise. The Bauer system dramatically reduces the air speed of each air handling unit while maintaining good air quality and temperature conditions through the use of pressure layers and molecular mixing of air.

Conventional HVAC also gives rise to temperature layering within occupied zone where hot air rises to pool at roof & cold air falls to your feet. Using a patented combination of positive pressurisation and non-directional molecular mixing Bauer eliminates this effect.

This innovative energy management and control system can yield energy savings of 30% or more when compared with conventional control techniques that operate most air-conditioning and ventilation systems. This optimisation improves the overall efficiency of the air-conditioning system and minimises energy consumption which translates into reduced operating costs in the long run.

In Australia this technology is licensed exclusively to operate on the DEOS DDC platform.