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## **Indoor Air Quality Devices – Worth the Investment**

The news is out: Indoor Air Quality (IAQ) devices are a good idea. And the facts are pretty exciting:

### **1. IAQs devices improve your bottom line**

The Bloom Centre estimates some pretty nice figures in energy savings with the installation of IAQ devices: “Typical savings are 25% of ventilation energy, or 8-20% of total space heating energy.”<sup>i</sup>

Much of the cost incurred in IAQ results from heating up outdoor ventilation air to be used inside the building. With the installation of IAQ devices, the ventilation system will only operate on a demand-control basis, according to actual building occupancy. The most energy savings occur when the system responds to periods of low occupancy. The Bloom Centre explains, “In practice, volumes of [outdoor air] can often be reduced by as much as 50% in buildings with variable occupancy patterns.”

### **2. IAQ devices improve worker and student productivity**

Both Carbon Dioxide (CO<sub>2</sub>), Volatile Organic Compounds (VOCs), and humidity levels play into what is known as Sick Building Syndrome (SBS). The symptoms, which include, “headaches, nausea, fatigue and drowsiness... [and] eye, nose, and throat irritation,” disappear when the occupant leaves the building.<sup>ii</sup> IAQ devices will pick up high levels of CO<sub>2</sub> and VOCs at the early stages, preventing drowsiness and SBS. The returns on productivity are substantial, with just “1-percent increase in worker productivity equaling all that is being spent on energy.”<sup>iii</sup>

In addition to air quality, temperature has been shown to play a role in both productivity and SBS. Maintaining a temperature of between 20°-23° C keeps workers and students at their best and helps prevent SBS symptoms.<sup>iv</sup> With the IAQPoint 2, temperature control is at your fingertips.

In addition to eliminating unnecessary energy expenditures and gaining worker/student productivity and health, IAQ devices optimizes HVAC use, contribute to LEED credits, and meets the ASHRAE 62.1 standard. What’s more, return on investment is just a couple of years. Yep. Indoor Air Quality devices are a good idea.

For more information on the sales, installation, and maintenance of IAQ devices, contact [sales@multigasinc.com](mailto:sales@multigasinc.com) or visit our website, [www.multigasinc.com](http://www.multigasinc.com).



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<sup>i</sup> Bloom Centre, "Energy Savings Tips for Commercial and Institutional Sectors,"  
<http://techassist.bloomcentre.com/docs/Energy-Saving-Tips-CommInst-LR.pdf>

<sup>ii</sup> Health Canada, "Indoor Air Quality in Office Buildings: A Technical Guide," pg 5,  
<http://publications.gc.ca/collections/Collection/H46-2-93-166Erev.pdf>

<sup>iii</sup> HPAC Engineering, "Ventilation and Moisture Monitoring," [http://hpac.com/iaq-amp-ventilation/ventilation-and-moisture-monitoring?NL=HPAC-01&Issue=HPAC-01\\_20131225\\_HPAC-01\\_499&YM\\_RID=laura@multigasinc.com&YM\\_MID=1441196&sfvc4enews=42&cl=article\\_1](http://hpac.com/iaq-amp-ventilation/ventilation-and-moisture-monitoring?NL=HPAC-01&Issue=HPAC-01_20131225_HPAC-01_499&YM_RID=laura@multigasinc.com&YM_MID=1441196&sfvc4enews=42&cl=article_1)

<sup>iv</sup> Lawrence Berkley National Laboratory, "Benefits of Improving Indoor Environmental Quality,"  
<http://www.iaqscience.lbl.gov/benefits-summary.html>

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