



# Ingersoll Rand Solutions for High Performance Green Buildings

At Ingersoll Rand we are committed to offering innovative products and systems that support energy efficiency and sustainable building construction.

As building owners are discovering, building or renovating to Leadership in Energy and Environmental Design (LEED)<sup>™</sup> standards ensures efficiencies that generally result in cost savings over the life of the building. In addition to offering premium sustainable building solutions, we have over 150 LEED Accredited Professionals to provide you with knowledge and expertise for your High Performance Building.

## Ingersoll Rand LEED\* Credit Contributions by Brand

			Club Car	Hussmann	Ingersoll Rand	Schlage	Thermo King	Trane
<b>Sustainable Sites:</b>								
Credit 4.3:	Alternative Transportation	3 points	●					
<b>Water Efficiency:</b>								
Credit 1.2:	Water Efficient Landscaping	2 points					●	
Credit 3:	Water Use Reduction	2-4 points					●	
<b>Energy &amp; Atmosphere:</b>								
Credit 1:	Optimize Energy Performance	1-19 points		●	●			●
Credit 2:	On-Site Renewable Energy	1- 7 points			●			●
Credit 3:	Enhancing Commissioning	2 points						●
Credit 4:	Enhanced Refrigerant Management	2 points						●
Credit 5:	Measurement & Verification	3 points						●
Credit 6:	Green Power	2 Points						●
<b>Materials &amp; Resources:</b>								
Credit 2.1:	Construction Waste Management	1 point				●		
Credit 2.2:	Construction Waste Management	1 point				●		
Credit 4.1:	Recycled Content	1 point	●			●		
Credit 4.2:	Recycled Content	1 point	●			●		
Credit 5.1:	Regional Materials	1 point	●		●	●		
Credit 5.2:	Regional Materials	1 point	●		●	●		
<b>Indoor Environmental Quality:</b>								
Credit 1:	Outdoor Air Delivery Monitoring	1 point						●
Credit 2:	Increased Ventilation	1 point						●
Credit 3.1:	Construction IEQ Mgmt Plan during Construction	1 point						●
Credit 3.2:	Construction IEQ Mgmt Plan before Occupancy	1 point						●
Credit 5.0:	Indoor Chemical & Pollutant Source Control	1 point						●
Credit 6.1:	Controllability of Systems, Lighting	1 point						●
Credit 6.2:	Controllability of Systems, Thermal Comfort	1 point						●
Credit 7.1:	Thermal Comfort, Design	1 point						●
<b>Innovation &amp; Design Process:</b>								
Credit 1:	Innovation in Design	1-5 points					●	●
Credit 2:	LEED Accredited Professional	1 point	●	●	●	●		●

● One or more products or services within the brand contribute toward the LEED credit

\* Source: LEED-NC (New Construction and Major Renovations) 2009; www.usgbc.org

Progress is  greener with Ingersoll Rand



Ingersoll Rand is a global diversified industrial firm providing products, services and solutions to enhance the quality and comfort of air in homes and buildings, transport and protect food and perishables, secure homes and commercial properties, and increase industrial productivity and efficiency. Driven by a 100-year-old tradition of technological innovation, we enable our customers to create progress and a positive impact in their world.

ingersollrand.com

# Ingersoll Rand Solutions for High Performance Green Buildings

These sustainable building products represent just a few examples of how Ingersoll Rand can help your building achieve LEED™ certification.



## Club Car Vehicles

- The California Air Resources Board issued executive order A-348-0002 in 2008, certifying certain Club Car LSVs as zero-emission vehicles
- Club Car LSVs are street-legal (in most US states) on roads with speed limits of 35 MPH or less
- AC Drive System with top speed of 25 MPH

Sustainable Sites Credit 4.3



## Ingersoll Rand Microturbines

- Microturbines save energy & offset carbon emissions by co-generating ultra-clean, efficient electricity and useful heat
- Use waste methane, such as landfill gas, and prevent the release of up to 9,000 metric tonnes equivalent of carbon dioxide annually

Energy & Atmosphere Credit 2



## Trane Chillers

- R123 Chiller has a leakage rate 4 times lower than the national default, at just 0.5%
- R123 has the highest thermodynamic efficiency of all non-CFC refrigerants

Energy & Atmosphere Credits 1 & 4



## Hussmann Refrigeration Systems

- Assuming 348 fans in a typical 45,000 sq ft store, using ECM fan motors over standard electric motors can decrease energy use by up to 290,000 kilowatt-hours annually, and can save up to \$32,000 in electricity costs per year per store

Energy & Atmosphere Credit 1



## Security Technologies Architectural Hardware

- Schlage, Von Duprin, LCN, Steelcraft, Ives and Falcon products are made from 14%-76% recycled content
- Over 7 regional manufacturing facilities located in the United States

Materials & Resources Credits 4 & 5



## Ingersoll Rand Nirvana Air Compressors

- Achieve up to 35% energy savings with state-of-the-art variable speed drive and low power consumption at start up, full load, and part load conditions
- Increase process efficiency and lower installation and maintenance costs with the fully integrated Total Air System

Energy & Atmosphere Credit 1



## Thermo King TriPac™

- Reduce idling time by up to 80%
- Hybrid auxiliary idle reduction and temperature management system provides truckers with heat, engine pre-heat, air conditioning, accessory power and battery charging

Innovation & Design Process Credits 1-5



## Building Services and Controls

- Performance contracts and turnkey installations that help meet mandated energy goals by providing financing capital
- Controls architecture that integrates building systems, providing easy integration and compatibility, and offering sustainable performance

Energy & Atmosphere Credits 1, 3, 5 and 6

For more information on how Ingersoll Rand's products and services can help your buildings achieve LEED certification, contact Ingersoll Rand Works at [iworks@irco.com](mailto:iworks@irco.com).

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[ingersollrand.com](http://ingersollrand.com)

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