



## Gasmaster World Class Innovation, World Class Efficiency,

## LEED Building for a Greener Tomorrow

From the very beginnings of Gasmaster we have been at the forefront of providing the world the most efficient boilers possible. Our contribution to high efficiency boilers include the world's first 4 million btu/hr, the world's first 8 million btu/hr, and the world's first 12 million btu/hr condensing boilers.

When the Green building council was founded in 1999 we were perfectly positioned to let engineers, contractors and building owners take advantage of the technology of high efficiency condensing boilers.

Since we make nothing but high efficiency condensing boilers, every single product that ships out the door at Gasmaster can earn you valuable LEED Points.

Depending on the exact installation, Gasmaster boilers give you potential LEED points in these categories:

- ⊙ Sustainable Sites
- ⊙ Water Efficiency
- ⊙ Energy and Atmosphere
- ⊙ Materials & Resources
- ⊙ Indoor Environmental Quality
- ⊙ Innovation & Design Process

We have outlined below the advantages of using a Gasmaster GMI boiler in each of the above categories.

**Call us on your next LEED Project and we will work through the details with you.**



## Sustainable Sites Credit 5.2:

Site Development: Maximize Open Space: 1 Point

**Intent:**

*Provide a high ratio of open space to development footprint to promote biodiversity.*

The compact footprint of Gasmaster Boilers can help you in reducing the amount of ft<sup>2</sup> required for mechanical rooms. Especially our high capacity, high efficiency 8 and 12 million btu/hr boilers.

Gasmaster's patented 316L stainless steel heat exchangers header and tubesheet construction means potable water can be supplied without secondary heat exchangers or storage tanks.

High efficiency venting is typically much smaller than traditional venting, freeing up even more space.

Sealed combustion eliminates the requirement for large fresh air dampers or additional make-up air units, reducing mechanical room heating or cooling issues.

## Water Efficiency Credit 1.1:

Water Efficient Landscaping: Reduce by 50%:1 Point

**Intent:**

*Limit or eliminate the use of potable water, or other natural surface or subsurface water resources available on or near the project site, for landscape irrigation.*

## Water Efficiency Credit 1.2:

Water Efficient Landscaping: No Potable Water Use or No Irrigation:1 Point in addition to WE Credit 1.1

**Intent:**

*Eliminate the use of potable water, or other natural surface or subsurface water resources available on or near the project site, for landscape irrigation.*



## Water Efficiency Credit 2:

### Innovative Wastewater Technologies: 1 Point

**Intent:**

***Reduce generation of wastewater and potable water demand, while increasing the local aquifer recharge.***

When in condensing mode Gasmaster boilers produce high volumes of condensate. Incorporating this water source into wastewater conveyance or irrigation (some treatment might be required) can help achieve aggressive water usage targets.

Condensate amounts upwards of 300 litres per hour are possible with our largest boilers giving a nice boost to wastewater or irrigation requirements. This is an often overlooked advantage of the Gasmaster condensing boiler.

## Energy & Atmosphere Prerequisite 2:

### Minimum Energy Performance Required

**Intent:**

***Establish the minimum level of energy efficiency for the proposed building and systems.***

Gasmaster has been exceeding the minimum energy requirements since we built our first boiler back in 1994. Today we are at the forefront of efficiency and the only boiler company offering high efficiency in 8 & 12 million btu boilers.

Gasmaster Sealed combustion design reduces the requirement for large fresh air dampers or additional make-up air units, reducing energy spent on large ventilation fans.

## Energy & Atmosphere Credit 2:

### On-Site Renewable Energy: 1-3 Points

**Intent:**

***Encourage and recognize increasing levels of on-site renewable energy self-supply in order to reduce environmental and economic impacts associated with fossil fuel energy use.***

Gasmaster has many Condensing boilers running bio-gas. Since boilers are often a substantial user of energy, if bio-gas is available to you, this can be quite advantageous and we can help improve your LEED points in this critical area.



## EA Credit 1: Optimize Energy Performance 1–10 Points

Two (2) points mandatory for all LEED for New Construction projects registered after June 26, 2007

**Intent:**

*Achieve increasing levels of energy performance above the baseline in the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.*

Gasmaster Boilers meet or exceed all the referenced standards for this section.

Our Boilers represent a substantial improvement on traditional boiler efficiencies and can have a large effect on improving a building's energy performance when compared to the baseline level. And with our larger boilers you do not have to settle for a hard to manage bank of small units with their higher installation costs, larger footprint and subsequent penalties.

## EQ Credit 4.1:

Low-Emitting Materials: Adhesives & Sealants: 1 Point

**Intent:**

*Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.*

Gasmaster only uses low VOC adhesives or chemically inert materials in our GMI condensing boilers.

## EQ Credit 4.2:

Low-Emitting Materials: Paints & Coatings: 1 Point

**Intent:**

*Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.*

Gasmaster only uses low VOC coatings for our GMI condensing boilers.



## EQ Credit 5:

### Indoor Chemical & Pollutant Source Control: 1 Point

**Intent:**

***Minimize exposure of building occupants to potentially hazardous particulates and chemical pollutants.***

Gasmaster's direct venting design allows for the isolation of all combustion air from the interior of the building reducing the amount of fresh air required for the machine room and reducing the possibility of contaminants from the machine room making their way into the general air supply.

In addition the varying air requirements of the boiler during low-fire do not affect machine room ventilation making for a healthier, easier to control environment.

## ID Credit 1–1.4:

### Innovation in Design: 1–4 Points

**Intent:**

***To provide design teams and projects the opportunity to be awarded points for exceptional performance above the requirements set by the LEED for New Construction Green Building Rating System and/or innovative performance in Green Building categories not specifically addressed by the LEED for New Construction Green Building Rating System.***

Gasmaster has been the premier innovator in the boiler industry. Our highest capacity boilers are an innovation unmatched by any other boiler manufacturer giving you opportunity within this category.

Gasmaster is the world leader in condensing boiler technology.