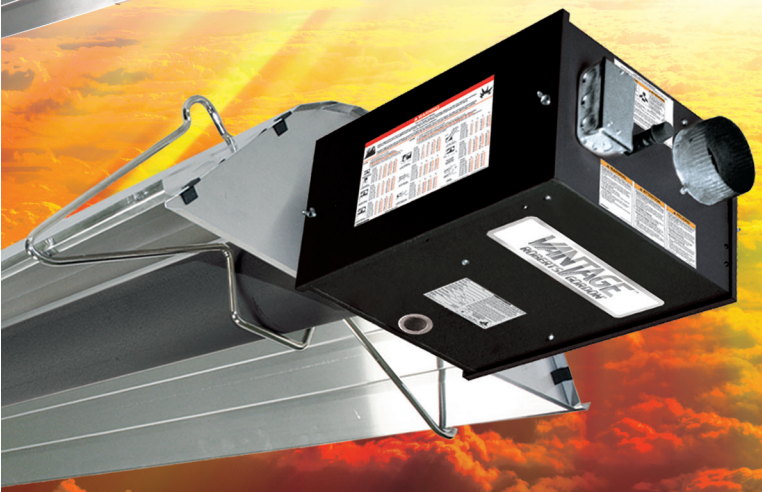
THE INDUSTRY LEADER

RADIANT

EFFICIENCY™



ROBERTS GORDON®

INFRARED HEATING

800.828.7450 www.robertsgordon.com

THE ENERGY EFFICIEN

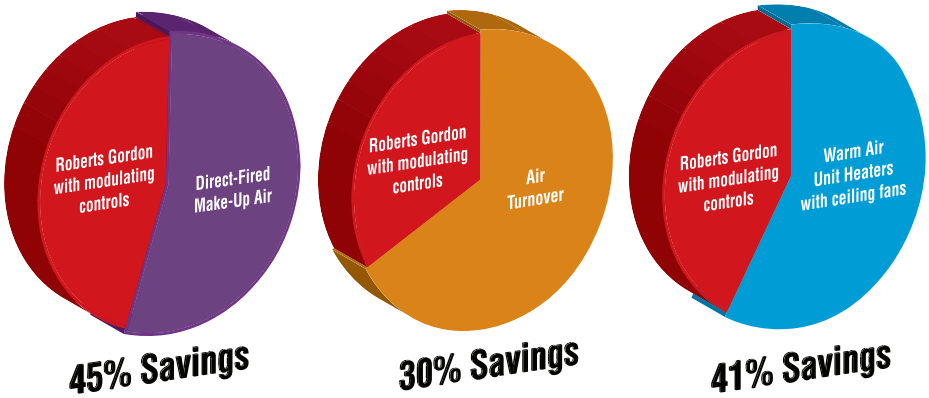
Why low-intensity infrared heaters are a highly effective, energy efficient solution.

Low-intensity infrared heaters heat a building and its occupants in the same manner as the sun heats the earth.

The sun does not heat the earth's atmosphere directly. Instead, infrared rays absorb into the earth, people, and objects. These, in turn, act as heat reservoirs and release heat into the atmosphere by convection.

It is widely recognized that this effect results in improved comfort conditions and greater fuel savings when compared to other methods of heating.

Seasonal Fuel Consumption



"Recognizing the reduced fuel requirement for these applications, … it is desirable for manufacturers of radiant heaters to recommend installation of equipment with a rated output that is 80 to 85% of the heat loss calculated by methods described in Chapters 17 and 18 of the 2013 ASHRAE Handbook – Fundamentals."

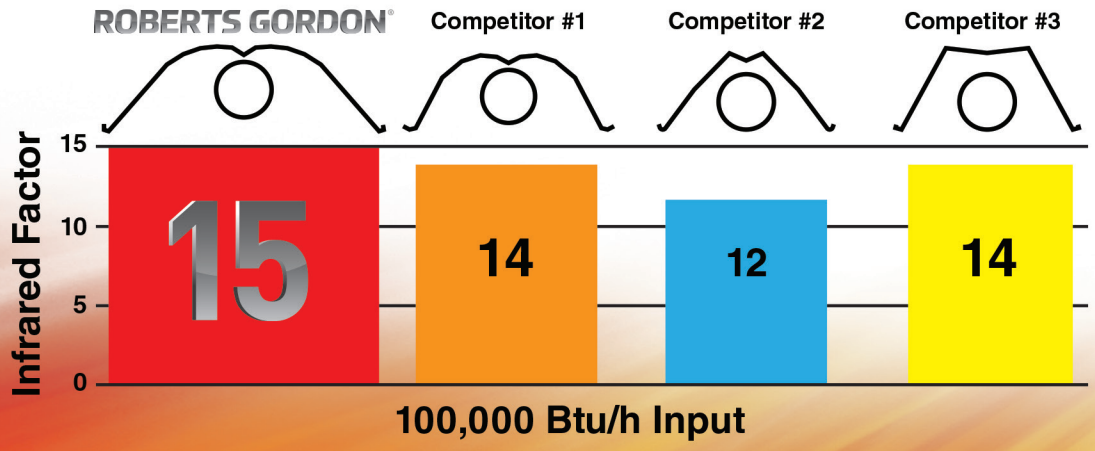
ASHRAE

- 2016 ASHRAE Handbook (HVAC Systems and Equipment)

In early 2015, a new standard AHRI 1330, endorsed by the Air Conditioning, Heating and Refrigeration Institute (AHRI), the American National Standards Institute (ANSI), and the Canadian Standards council, was introduced to provide a method to measure performance ratings for gas fired infrared heaters.

This standard introduced a numerical chart, referred to as the Infrared Factor (IF), that categorizes radiant efficiency results on a scale of 7 to 15 (IF-15 being the highest achievable rating).

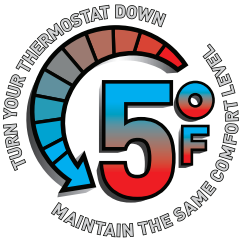
Recent test results have proven that some of our low-intensity infrared heaters have the highest Infrared Factor of any other low-intensity infrared heater on the market!



NT HEATING SOLUTION

Today's energy conscious building owners are looking for energy efficient heating solutions.

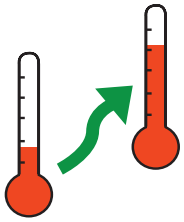
Why Infrared Heating is your best energy value:



Greater Comfort at Lower Temperatures:
Because infrared heaters heat objects and occupants in the space directly, the thermostat can be set 5° to 10° F lower than a warm air system and achieve the same comfort levels.

Lower Energy Bills:
Since greater comfort is achieved at lower temperatures, less fuel is required to heat the space.

Greater Electrical Savings:
Infrared heaters also use significantly less electricity compared to traditional heating equipment.



Rapid Heat Recovery:
Opening large bay doors can quickly force a large amount of warm air out of the building. Low-intensity infrared heat builds up a heat reservoir in the floor and surrounding objects, which results in rapid heat recovery and less fuel wasted when doors are constantly being opened.

Reduced Stratification:
Due to the infrared effect, air is heated indirectly, beginning at floor level which results in less stratification and less fuel needed to maintain comfort levels at the floor.

Clean, Quiet, Draft-Free Heat:
ROBERTS GORDON® low-intensity infrared heaters require very little moving parts to operate. The radiant heat generated from the emitter tube does not require air movement to spread the heat, thereby, eliminating drafts that can push dirt or dust around the facility possibly interfering with building operations.

Roberts-Gordon has remained an industry leader since introducing the first commercially produced low-intensity, infrared tube heater in the early 1960s. The latest product offering reflects our increased focus on energy efficiency and keeping up with current industry standards.

Our test laboratory is one of only a few labs in the world that conducts radiant efficiency tests in accordance to AHRI 1330.

DESIGN CERTIFIED®

EXPERIENCE THE BENEFITS OF ZONING AND MODULATING WITH OUR ADVANCED CONTROLS!

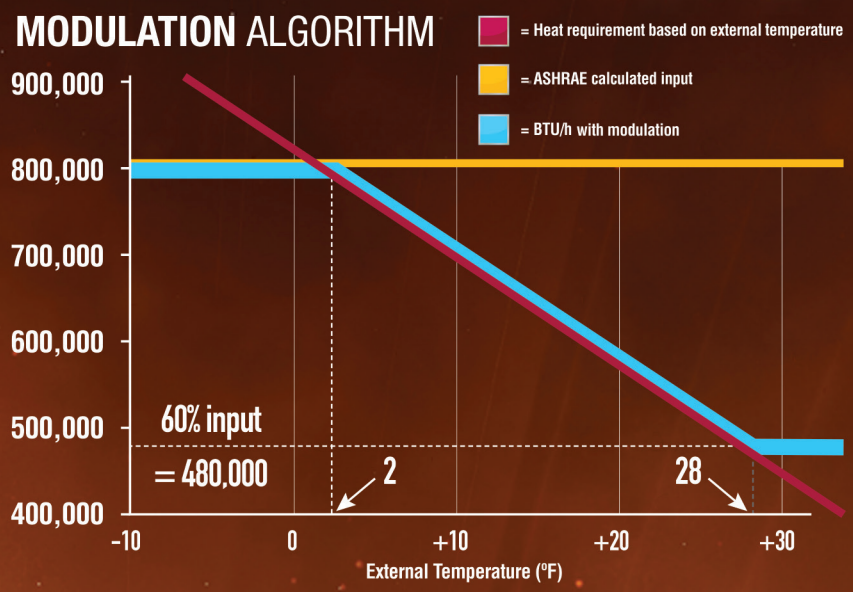
With the most diverse control panel offering in the industry, Roberts-Gordon is the only manufacturer that senses outdoor temperature, so the system truly knows the entire heat requirement.

The *CORAYVAC® Modulating Heating Control* achieves the highest levels of comfort and energy savings through modulation!

This microprocessor based control panel compares indoor and outdoor air temperatures to efficiently modulate a CORAYVAC® system according to programmed set points.

With an *Infrared Factor as high as 15* and increased thermal efficiency from modulation, a CORAYVAC® system controlled by a CORAYVAC® Modulating Heating Control produces the most energy efficient low-intensity infrared heating system on the market today!

INFRARED FACTOR AS HIGH AS 15



The *ROBERTS GORDON® COMPLETE™ Modulating Heating Control* also compares outdoor temperature with indoor temperature to operate unitary heaters according to heat load requirements, providing just the right amount of heat for your space conditions.

Ideal for on/off heating systems, the *CORAYVAC® Heating Control* is another simple way to control your CORAYVAC® system.

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