

## AHRI Informational Statement - Gas-Fired Infrared Heaters

**CAN/ANSI/AHRI 1330-2015**, *Performance Rating for Radiant Output of Gas Fired Infrared Heaters*, establishes testing procedures for rating the radiant output of gas-fired infrared heaters. It is presently under review and an updated standard is expected to be finalized later this year.

There are three major proposed changes to the 2015 Standard:

1. The Infrared Factor (IF) will be replaced by the Radiant Emission Value (REV) to provide a metric for radiant output that is more relevant to system designers.
2. Testing equipment specifications will be updated to more tightly control the design and manufacturing of the Ulbricht sphere, a critical component of the radiometer. This change is in response to data that showed inconsistencies in current radiometer equipment. Test results obtained by the PTB (Physikalisch-Technische Bundesanstalt) lab in Germany, showed that the standard required a more precise construction of spheres to eliminate these inconsistencies.
3. Coverage for multi-burner continuous tube low-intensity systems will be included in the standard to allow ratings for this product class and to harmonize with the latest European Standards for infrared heaters.

In the interim, information on infrared heater performance that is based on testing in accordance with Standard 1330 shall include the following reporting criteria, as specified in Section 7 of the 2015 Standard:

- Model number
- Heat input, kW (BTU/h)
- Length of heat exchanger tube including length of U-bends and elbows measured through the center-line (radiant tube infrared heaters only)
- Infrared Factor
- Minimum angle (shall be specified if it is not tested in a horizontal position, Deg)

In the U.S. or Canada, there are no certification programs that verify radiant output of infrared heaters, nor are there any third-party Nationally Recognized Testing Laboratories (NRTL) that can test infrared heaters for radiant output in accordance with Standard 1330.

AHRI and its Infrared Heating Product Section are developing a certification program for Gas-Fired Infrared Heaters that will test for radiant output in accordance with the updated Standard 1330. Member companies of the Infrared Heating Product Section have acquired new radiometers, which meet the improved performance specifications of the updated standard. The data measurements and radiant output ratings determined by the updated Standard 1330 will be used as the basis of the AHRI certification program. AHRI will share information on the revised standard and new certification program as it becomes available.