

ASHRAE 90.1 – Executive Summary

ASHRAE/IESNA Standard 90.1 – 1999

Industry standards play an important societal role: they define a "standard of care" for wide-ranging issues such as indoor air quality, energy efficiency, and environmental impact. In doing so, they become an important reference for code-writing agencies. Standard 90.1 is a national consensus standard that was developed by the American Society of Heating, Refrigerating and Air-conditioning Engineers, Inc. (ASHRAE) and the Illuminating Engineering Society of North America (IESNA.) It sets minimum requirements to promote the principles of effective, energy-conserving design for buildings and building systems.

Top 10 issues you should know about the new energy standard

For additional information please refer to the PowerPoint handout *ASHRAE/IESNA Standard 90.1-1999–The Top Ten Issues You Should Know About The New Energy Standards.*

10. 90.1 applies to the entire building.
9. There are new control requirements for systems larger than 65,000 Btuh and ¾ hp fan power, e.g., automated shutdown is required.
8. There are also lighting control requirements – densities are decreased for most applications.
7. 90.1 applies to alterations and additions to the building, for example: If the retrofit is 20%, then 20% rule applies, if X%, then X% rule applies.
6. Hot gas bypass is limited for both split systems and chillers.
5. 90.1 limits the amount of reheat that can be done with new energy.
4. Energy recovery is required for specific airside and waterside system applications that have high air volumes / thru put or 24 hour per day operations with simultaneous loads.
3. Fan pressure optimization is required for DDC/VAV systems.
2. Minimum efficiency requirements have been revised for many types of HVAC equipment and 90.1 adds efficiency requirements for previously undeclared categories.
1. 90.1 is the basis of the State of Michigan energy code (effective March 13, 2003).

The bottom line is that we have a new industry standard and it is already part of Michigan's energy code. Even more importantly it's a way that we can use less energy and reduce our country's dependence on unreliable fuel sources.

Contact us about upcoming training seminars on ASHRAE / IESNA Standard 90.1 – 1999, what it is, how to specify accordingly and solutions offered by Trane.

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