SPECIAL NOTE

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- b. participation in the next review of the Standard,
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CONTENTS

ANSI/ASHRAE Standard 55-2010
Thermal Environmental Conditions for Human Occupancy

SECTION PAGE
Foreword................................................................................................................................................................... 2

  1 Purpose .......................................................................................................................................................... 2
  2 Scope ............................................................................................................................................................. 2
  3 Definitions.................................................................................................................................................... 3
  4 General Requirements ................................................................................................................................... 4
  5 Conditions that Provide Thermal Comfort .............................................................................................. 4
  6 Compliance .................................................................................................................................................. 13
  7 Evaluation of the Thermal Environment .................................................................................................. 14
  8 References ................................................................................................................................................... 16
Normative Appendix A: Activity Levels ............................................................................................................... 17

Normative Appendix B: Clothing Insulation ........................................................................................................ 19
Informative Appendix C: Acceptable Approximation for Operative Temperature ........................................... 22
Normative Appendix D: Computer Program for Calculation of PMV-PPD ...................................................... 23
Informative Appendix E: Thermal Environment Survey ................................................................................... 25
Informative Appendix F: Procedure for Evaluating Cooling Effect of Elevated Air Speed Using SET .......... 29
Informative Appendix G: Sample Compliance Documentation........................................................................... 30
Informative Appendix H: Bibliography ............................................................................................................. 33
Informative Appendix I: Addenda Description ................................................................................................. 36

NOTE
Approved addenda, errata, or interpretations for this standard can be downloaded free of charge from the ASHRAE Web site at www.ashrae.org/technology.
The 2010 edition of the standard includes the following significant changes:

- Clarifies that the upper humidity limit shown on the psychrometric chart in the Graphic Comfort Zone Method applies to only that method. Higher humidity limits are allowed if evaluated with the Computer Model Method and no limits are imposed on the Adaptive Model.
- Revises requirements and calculation methods when increased air movement is used to maintain comfort in warm conditions. Standard Effective Temperature (SET) is reintroduced into the Standard as the calculation basis for determining the cooling effect of air movement. In general, the calculation method has been simplified with the removal of turbulence intensity and draft risk calculations, and the personal control limitations have been relaxed based on the results of new research. This change is expected to give clear requirements for application of ceiling fans for comfort cooling.
- Significant revisions to Section 6, “Compliance” that now clearly state the mandatory minimum requirements for analysis and documentation of a design to show that it meets the requirements in the standard. Informative appendix H expands on Section 6 by providing a compliance form for documentation of design compliance.
- A new general satisfaction survey has been added to section 7.5.2.1 as a method to evaluate thermal comfort in occupied spaces. The previous survey in the 2004 version of the standard was meant for evaluating comfort at a point in time (e.g., “how do you feel right now?”), and the new survey is meant to evaluate the overall comfort of a space (e.g., “how do you feel in general?”). Addition of a general satisfaction survey aligns standard 55 with current practice for survey-based post occupancy evaluations (POEs).
- Editorial changes have been made throughout to clarify the requirements in the standard. Wherever possible, the use of informative language in the standard is avoided.

For more specific information on the changes and on other revisions made to the standard by addenda, refer to Informative Appendix I at the end of this standard. Users of the standard are encouraged to use the continuous maintenance procedure to suggest changes for further improvements. A form for submitting change proposals is included in the back of this edition. The project committee for Standard 55 will take formal action on all change proposals received.

1. PURPOSE

The purpose of this standard is to specify the combinations of indoor thermal environmental factors and personal factors that will produce thermal environmental conditions acceptable to a majority of the occupants within the space.

2. SCOPE

2.1 The environmental factors addressed in this standard are temperature, thermal radiation, humidity, and air speed; the personal factors are those of activity and clothing.