

ASHRAE Technical FAQ

ID 54

Question Is there a thermal comfort standard for the maximum allowable amount of temperature variation between rooms in a residence?

There is no such standard published by ASHRAE. In the [2015 ASHRAE Handbook – HVAC Applications, Chapter A47](#), Design and Application of Controls, on page 21 it is noted that "Areas or rooms having dissimilar load characteristics or different conditions should be controlled individually."

Answer [ASHRAE Standard 55-2017](#), "Thermal Environmental Conditions for Human Occupancy", plus [ASHRAE BOD approved addenda](#) relates reported human comfort to temperature and humidity levels, and establishes a range of temperatures and humidity that are considered comfortable by 80% or more of the test subjects.

The handbook and the other publications may be purchased and/or individual chapters of the handbook may be purchased and downloaded on-line at our website, www.ashrae.org or by calling 1-800-527-4723 in the USA and Canada or 1-404-636-8400 worldwide.

ASHRAE Pubs [2015 ASHRAE Handbook – HVAC Applications – Chapter A47](#)
[ASHRAE Standard 55-2017](#), plus [ASHRAE BOD approved addenda](#).

Topic References humidity, residence, temperature variation, thermal comfort

	Cognizant ASHRAE Committees	Refer to Organization
1	TC 2.1	
2		
3		
4		
5		