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| ASHRAE Technical FAQ |
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| ID  | 50 |
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| Question  | How does thermal comfort affect employee productivity? |
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| Answer  | Productivity is sometimes hard to measure and to determine the reason for changes. However, the relationship with air quality (including thermal comfort) has been studied and results published. You may benefit from performing a keyword search at the ASHRAE website ([www.ashrae.org/bookstore](http://www.ashrae.org/bookstore)) to locate ASHRAE publications relevant the subject you are interested in. This searches all technical papers and proceedings from ASHRAE Meetings and Conferences, magazine articles, handbook chapters, standards, and other literature published by or available through ASHRAE. The following are related to thermal comfort and productivity:* [Modeling of Subjective Responses to Indoor Air Quality and Thermal Conditions in Office Buildings](http://www.ashrae.org/resources--publications/periodicals/hvacr-research)
* [Self-Assessed Productivity and the Office Environment](http://www.techstreet.com/cgi-bin/detail?product_id=1713237)
* [Indoor Temperature, Productivity, and Fatigue in Office Tasks](http://www.ashrae.org/resources--publications/periodicals/hvacr-research)
* [The Importance of Human Productivity to Air-Conditioning Control in Office Environments](http://www.ashrae.org/resources--publications/periodicals/hvacr-research)
* [Some Quantitative Relations between Indoor Environmental Quality and Work Performance or Health](http://www.ashrae.org/resources--publications/periodicals/hvacr-research)
* [Relating Human Productivity and Annoyance to Indoor Noise Criteria Systems: A Low Frequency Analysis](http://www.techstreet.com/cgi-bin/detail?product_id=1718340)
* [A Model to Estimate the Cost-Effectiveness of Improving Office Work through Indoor Environmental Control](http://www.techstreet.com/cgi-bin/detail?product_id=1718522)
* [Control of Temperature for Health and Productivity in Offices](http://www.techstreet.com/cgi-bin/detail?product_id=1718524)
* [Improving Profits By Reducing Rework](http://www.techstreet.com/cgi-bin/detail?product_id=1717591)
* [IEQ and the Impact on Building Occupants](http://www.techstreet.com/cgi-bin/detail?product_id=1719637)
* [How IEQ Affects Health, Productivity](http://www.techstreet.com/cgi-bin/detail?product_id=1719632)
* [An Assessment of the Influence of the Indoor Environment on the Productivity of Occupants in Offices.](http://www.techstreet.com/cgi-bin/detail?product_id=1718268)
* [Health and Productivity Benefits of Improved Indoor Air Quality](http://www.techstreet.com/cgi-bin/detail?product_id=1711418)
* [Relationships Between the Indoor Environment and Productivity: A Literature Review](http://www.techstreet.com/cgi-bin/detail?product_id=1711420)
* [Comfort and control in the workplace](http://www.techstreet.com/cgi-bin/detail?product_id=1712806)
* [A Human Factors Approach to Performance and Productivity](http://www.techstreet.com/cgi-bin/detail?product_id=1716556)
* [Environmentally Responsive Workstations and Office Worker Productivity](http://www.techstreet.com/cgi-bin/detail?product_id=1716559)
* [Productivity in the U.S. A Question of Capacity or Motivation?](http://www.techstreet.com/cgi-bin/detail?product_id=1716589)
* [The Impact of the Building Indoor Environment on Occupant Productivity](http://www.techstreet.com/cgi-bin/detail?product_id=1712206)
* [Relationship Between Measures of Thermal Environment and Measures of Worker Productivity](http://www.techstreet.com/cgi-bin/detail?product_id=1715024)

[ASHRAE Standard 55-2020](https://www.techstreet.com/ashrae/standards/ashrae-55-2020?product_id=2207271) - Thermal Environmental Conditions for Human Occupancy. This standard specifies conditions or comfort zones where 80% of sedentary or slightly active persons find the environment thermally acceptable.[ASHRAE Thermal Comfort Tool CD](http://www.techstreet.com/ashrae/products/1806669) provides a user-friendly interface for calculating thermal comfort parameters and making thermal comfort predictions using several thermal comfort models.The standard and the other publications may be purchased and downloaded on-line at our website, [[www.ashrae.org](file:///%5C%5CAshFile%5Ctechnology%24%5CTech%20Srvs%5CSteve%20Winter%202014%5CFAQs%5CSection%201%5Cwww.ashrae.org)](file:///%5C%5CAshFile%5Ctechnology%24%5CTech%20Srvs%5CSteve%20Winter%202014%5CFAQs%5CSection%201%5Cwww.ashrae.org) or by calling 1-800-527-4723 in the USA and Canada or 1-404-636-8400 worldwide. |
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| ASHRAE Pubs  | [ASHRAE Thermal Comfort Tool CD](http://www.techstreet.com/cgi-bin/detail?product_id=1806669)[ASHRAE Standard 55-2020](https://www.techstreet.com/ashrae/standards/ashrae-55-2020?product_id=2207271), plus [ASHRAE BOD approved addenda](http://www.ashrae.org/standards-research--technology/standards-addenda). |
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| Topic References  | thermal comfort, employee productivity |
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|  | Cognizant ASHRAE Committees | Refer to Organization |
| 1 | [TC 2.1](http://tc0201.ashraetcs.org/) |  |
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