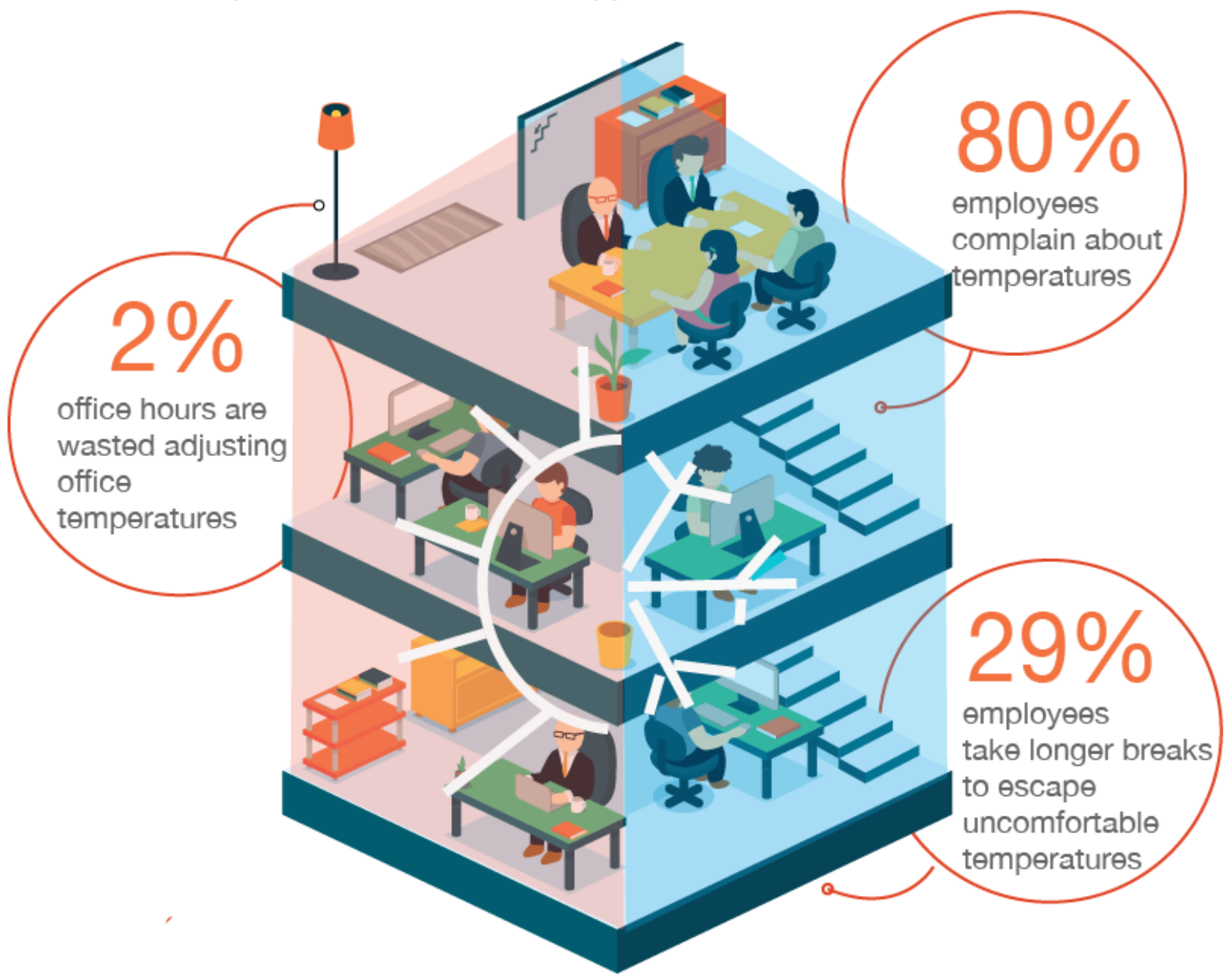# THERMOSTAT WARS

The right office temperature keeps productivity up, employees healthier, HVAC costs down, and a building's carbon footprint small. But yet, most Facility Managers are struggling to maintain the optimal temperature and keep their employees comfortable. It's time to end the "It's too cold", "It's too hot" war.

A 2015 study* states that in a typical office….

80% employees complain about temperatures

2% office hours are wasted adjusting office temperatures

29% employees take longer breaks to escape uncomfortable temperatures

It's not just employee comfort, office temperatures affect your company's bottom line directly!

When 'It's too cold'...

- Work efficiency takes a dip. For e.g. the number of typing errors increase by **44%**

- Productivity decreases, reducing employee output by almost **50%**

- Cold temperatures lead to 'cold shoulder' syndrome, impacting team work and employee collaboration

When 'It's too hot'...

- Attendance drops by **18%**, productivity drops by **20%**

- Project turnaround time increases by **13%**

- Employees are **45%** more distracted

- Employee efficiency when performing repetitive tasks and mathematical deductions is reduced.

Factors that have an impact on Comfort

Heat Loads
These need to be accurately computed at the outset while calculating the tonnage of air-conditioning. These include radiant heat from the sun (also orientation, time of day etc.), heat generated by occupants, heat generated by the office equipment e.g. computers, printers, copiers

Set point of Air Temperature
Desired temperature of the air surrounding the occupants. Generally 23-25 deg. C is recommended.

Air Flow
The speed and direction of airflow. Generally 100-150 cfm per occupant is recommended

Humidity
The amount of moisture in the air surrounding the occupants. Generally 45-55% is recommended.

Air Quality
This can include numerous parameters like SPM, VOCs, NOx, SOx, CO2, etc. There are WHO-specified standards for all of these.

The end of Thermostat Wars is just a call away!

Say goodbye to hot and cold spots with a system that learns your building's unique needs and adjusts itself automatically. Using the Internet of Things (IoT) design, the 75F system packs the computing power of the cloud into smart HVAC devices that make everyone more comfortable and can save up to 40% on energy bills!

75F™

*Sources: 1) LBNL Study: Effect of Temperature on Task Performance in Offfice Environment, 2015 and 2) Software Advice