OPTIMUM TEMPERATURE SET POINTS



When using air-conditioning in summer and winter, you should carefully consider comfort, health and energy efficiency. A range of adverse impacts result from incorrect use. The role of effective insulation can't be overstated for both comfort and energy efficiency.

ENERGY USE

Ideal outdoor temperature range

The use of air-conditioning isn't necessary when the outdoor temperature is within the ideal temperature range of 'springtime weather', between 21°C and 25°C. Humans are at optimal comfort within these temperature ranges.

Optional set points are: cooling 26°C and heating 20°C.

HEALTH

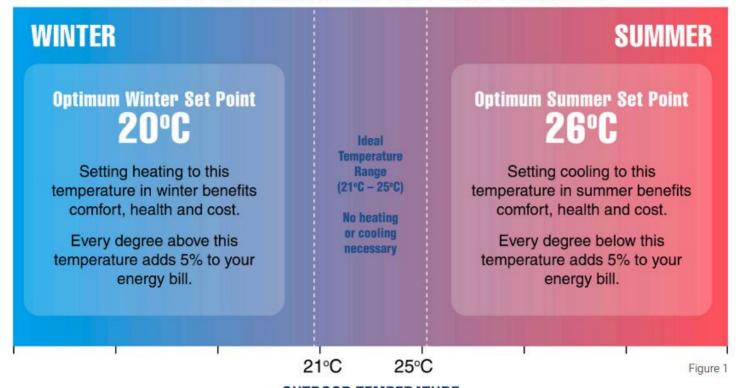
Adverse effects of too much

Over-using air-conditioning extracts humidity from the air in your home. Low humidity can have serious health effects. *Minor:* dry skin, chapped lips, dry nasal passages and a sore scratchy throat. *Major:* dry mucous membranes (increases the chance of contracting viruses and microbes that cause illness, most commonly, colds and flus).

What is overuse?

From a health perspective, over-use is simply having more aggressive temperature set points than required. As detailed in IMAGE 1, running the air-conditioner below 26°C in summer and above 20°C is winter is deemed over-use.

PERFECT AIR-CONDITIONING SET POINTS FOR HOMES 2



OUTDOOR TEMPERATURE

INEFFICIENT USE

There are a range of ways in which air-conditioners and electric heating can be used inefficiently:

- 1. DURING OPTIMAL OUTDOOR TEMPERATURES When it's between 21°C and 25°C outdoors, you don't need air-conditioning. Simply open a window.
- 2. NOT CONTAINING ROOMS

It's inefficient to use air-conditioning with open windows or doors, or with bad air leaks or poor insulation.

- 3. USE IN ROOMS UNOCCUPIED
 Air-conditioning serves no purpose in rooms that have nobody in them.
- 4. USE WITH TOO AGGRESSIVE SET POINTS As IMAGE 1 shows, every 1°C the wrong way adds five per cent to your power bill.

