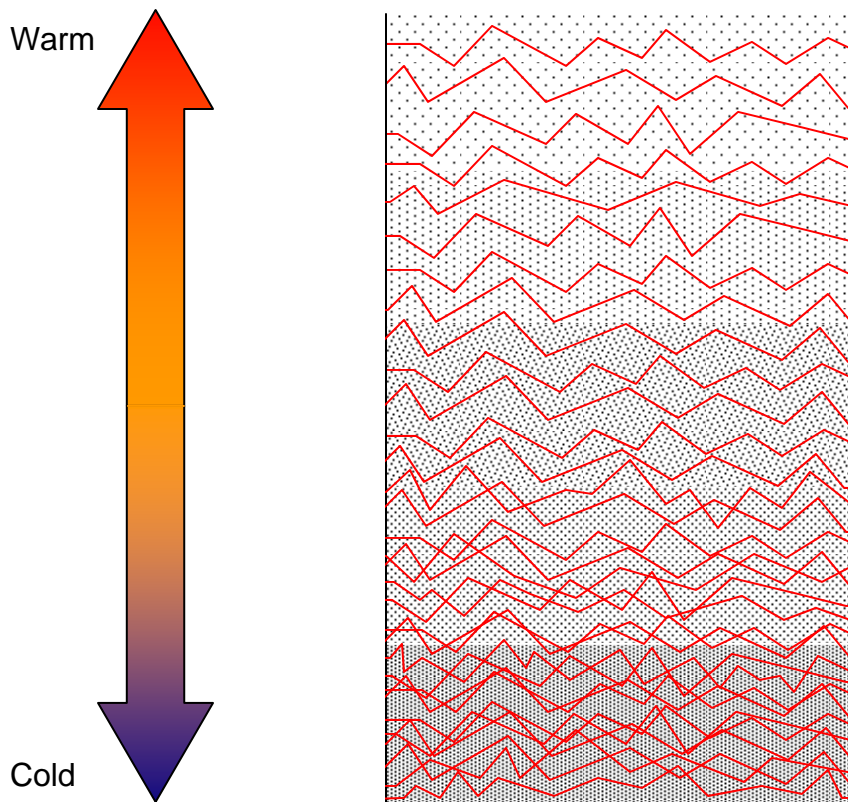


SELF-REGULATING TECHNOLOGY

STEP Heating Element™ has self-regulating properties that make it pull only the energy necessary to maintain a comfortable even temperature. It cannot overheat.

The polymer constitutive of the heating element has in its composition molecular particles distributed in a homogeneous manner that when in contact with one another permits the passage of electrical current due to its semi-conductive configuration.

When the ambient temperature increases, the morphology of the polymer structure changes and the particles separate reducing the points of contact between each other. As the electrical resistance increases less current can circulate and the emission of heat decreases.



When the ambient temperature is low, these particles are closer to one another permitting a greater passage of electrical current and thereby generating more calorific power.