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heat and temperature are two different but closely related concepts note that they have different units temperature typically has units of degrees celsius c or kelvin k and heat has units of energy joules j temperature is a measure of the average kinetic energy of the atoms or molecules in the system hvac stands for heating ventilation and air conditioning hvac systems are meant to give you control over your home s heating and cooling temperatures most people refer to hvac systems by their more common names such as central air conditioners ductless ac units furnaces heat pumps or boilers the most common units for heat are btu btu british thermal unit also known as a heat unit in united states calorie joule btu british thermal unit the unit of heat in the imperial system the btu is the amount of heat required to raise the temperature of one pound of water through 1 o f 58 5 o f 59 5 o f at sea level 30 the standard unit of heat in the international system of units si is the joule j another unit is the calorie cal with 1 calorie being the amount of heat required to raise the temperature of 1 gram of water by 1 degree celsius at atmospheric pressure as a form of energy heat has the unit joule j in the international system of units si in addition many applied branches of engineering use other traditional units such as the british thermal unit btu and the calorie the standard unit for the rate of heating is the watt w defined as one joule per second hence the si unit of heat is joules joules can be defined as the amount of energy required to raise the temperature of a given mass by one degree to increase the temperature of one unit weight of water by one degree we require 4 184 joules of heat

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