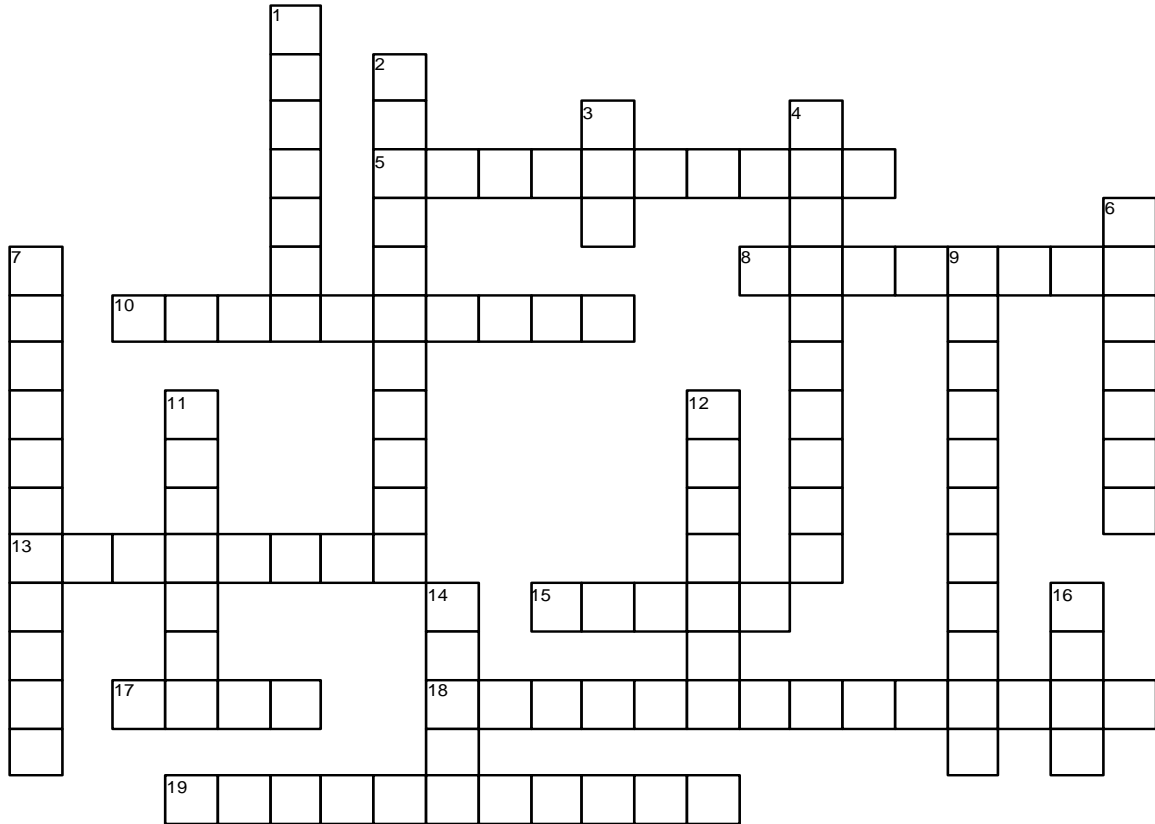


Heating and Air-Conditioning Principles

Chapter 60



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ACROSS

- 5 A third way to handle a cooling load is by the use of _____ refrigeration, which is called air conditioning.
- 8 _____ humidity (RH) is the percentage of how much moisture is present in the air compared to how much moisture the air is capable of holding at that temperature.
- 10 In most vehicles, heated coolant is circulated through a heat exchanger, called a _____.
- 13 _____ humidity is the measure of the amount of moisture (water vapor) in the air regardless of the temperature.
- 15 _____ matter has a definite shape and substance.
- 17 _____ is measured in the metric unit called calorie and expresses the amount of heat needed to raise the temperature of one gram of water one degree Celsius.
- 18 Heat is also measured in _____ Units (BTU).
- 19 one way to move heat, called _____, is with a block of ice.

DOWN

- 1 _____ heat can pass from any warmer object through air to any cooler object.
- 2 Humans have a temperature _____ somewhere between 68°F and 78°F (20°C and 26°C).
- 3 When heat is added to most liquids, it produces ___ as the liquids boil.
- 4 _____ is the "extra" heat that is needed to transform a substance from one state to another.
- 6 _____ load is the term used when additional heat is needed. The actual load is the number of BTUs or calories of heat energy that must be added.
- 7 A method of cooling that works well in areas of low humidity is evaporation of water, commonly called _____ cooling.
- 9 _____ is the measure of the level of energy.
- 11 _____ is measured in the metric unit called calorie and expresses the amount of heat needed to raise the temperature of one gram of water one degree Celsius.
- 12 _____ can flow through a pipe or hose and can be pumped such as by the air-conditioning compressor.
- 14 Most recent vehicles use a _____ filter in the A/C and heating systems to clean the air by trapping dust and pollen particles before they enter the passenger compartment.
- 16 The heating, ventilation, and air-conditioning (_____) system of an automobile is designed to provide comfort for the driver and passengers.