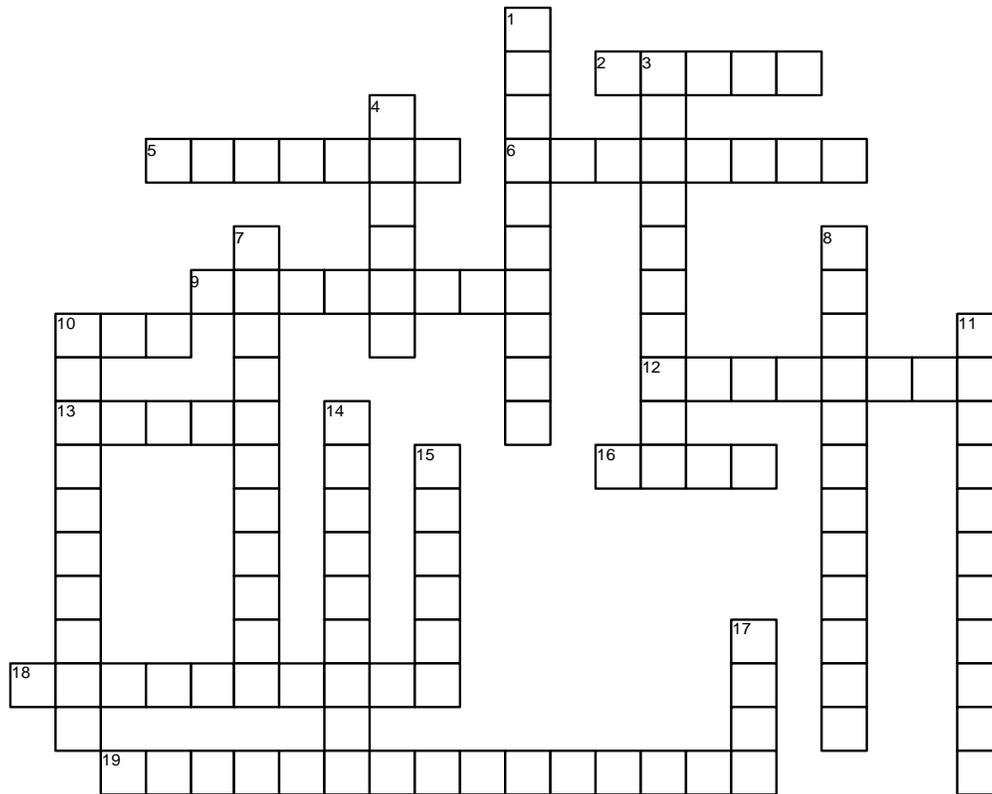


Heating And Air-Conditioning Components And Operation

Chapter 63



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ACROSS

- 2 _____ is a classification of hydrocarbons and is specified for use in air-conditioning systems that have been charged (retrofitted) from CFC-12 to HFC-134a.
- 5 The intensity of a vibration depends on how much _____ energy, or energy in motion the atom or molecule contains.
- 6 _____ humidity 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.
- 9 The characteristic of being able to be mixed is called _____.
- 10 The abbreviation for an evaporator pressure regulator valve is _____.
- 12 _____ humidity is the measurement of the weight of the water vapor in a given volume of air.
- 13 Compressors that use a swash

plate are often called _____ compressors.

- 16 Molecules in a substance vibrate rapidly in all directions, and this disorganized energy is called _____.
- 18 The refrigerant is circulated through the system by a _____ that is powered by the engine through an accessory drive belt.
- 19 A commonly used method to control evaporator temperature is to use a thermostat to control the compressor. Air-conditioning compressors use an _____ clutch.

DOWN

- 1 Relative humidity is commonly measured with a _____ or a psychrometer.
- 3 Some compressors use a _____, or axial plate. This plate is rigidly mounted to the belt-driven shaft at an angle.

4 A _____ is a substance that cannot be compressed.

- 7 In TXV systems, A _____ is a ball and seat valve used to increase or decrease the size of an opening.
- 8 The _____ is the temperature at which a liquid substance turns to a vapor.
- 10 Liquid refrigerant evaporates in small radiator-type unit called the _____.
- 11 The engine coolant flows through _____ and a heater core.
- 14 The _____ looks like another radiator, and its purpose and function is the same as the cooling system radiator, to remove heat from the high-pressure gas.
- 15 A _____ motor with a squirrel cage-type fan is usually used to force air through the heater core and into the passenger compartment.
- 17 The heating, ventilation, and air-conditioning system is often abbreviated _____.