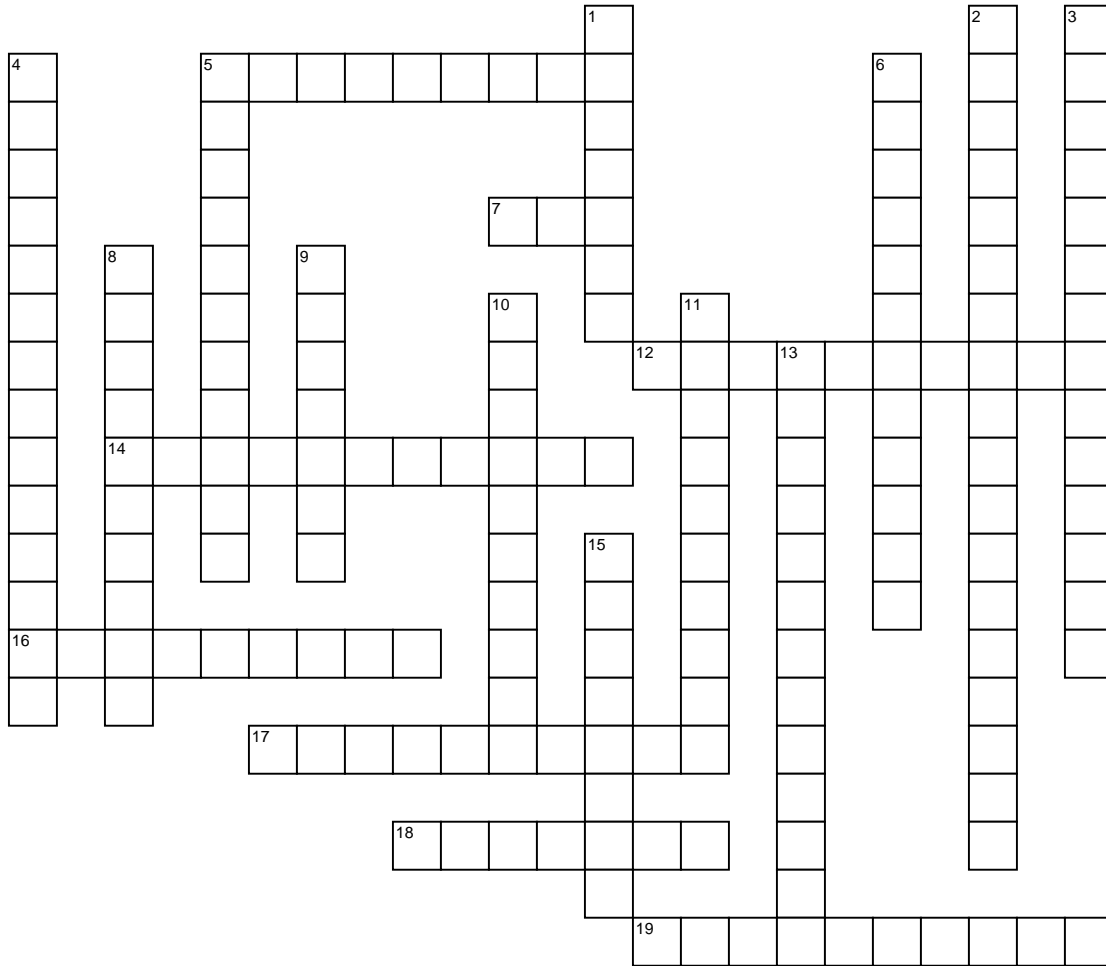


Chapter 2

The Refrigeration Cycle



ACROSS

- 5 _____ is the amount of heat added to the refrigerant after it has changed from liquid to vapor.
- 7 _____ systems are now being used by most vehicle manufactures mainly due to the reduction in the amount of refrigerant required in this type of system.
- 12 If an excessive amount of refrigerant is put into a system then the excess volume partially fills the condenser as a liquid and reduces its effective volume.
- 14 _____ are also called cycling clutch orifice tube (CCOT) and fixed orifice tube (FOT) Systems.
- 16 The _____ looks like another radiator, and its purpose and function is to remove heat from the high-pressure gas.
- 17 A refrigerant is circulated through the system by a _____ that is usually powered by the engine through an accessory drive belt.
- 18 A _____ evaporator is usually the result of having too much refrigerant in the system.
- 19 Some newer systems use a _____, which is a solid-state device that changes its electrical resistance in the inverse relationship to its temperature.

DOWN

- 1 An evaporator that has a low pressure but a temperature that is too warm is called "_____", which means that not enough refrigerant is entering to produce the desired cooling effect.
- 2 The flow of a refrigerant through the system is called the _____ and is used to cool the interior of the vehicle.
- 3 Most recent vehicles use a _____ in place of a pressure switch.
- 4 Many orifice tube systems use a two-wire _____ mounted in the accumulator or the suction line to the compressor.
- 5 Many orifice tube systems use a two-wire pressure switch mounted in the accumulator or the _____ to the compressor.
- 6 If the volume of liquid drops so that vapor bubbles pass through the TXV or OT, the system is _____ and its cooling effectiveness is reduced.
- 8 The term _____ refers to a liquid at a temperature below its normal condensation temperature.
- 9 It has low pressure and temperature.
- 10 The refrigerant condenses in the high side. The high side line is often called the _____.
- 11 This causes the liquid refrigerant to evaporate in small radiator-type unit called the _____.
- 13 A _____ is used in the high side of a TXV system.
- 15 It has higher pressure and temperatures.