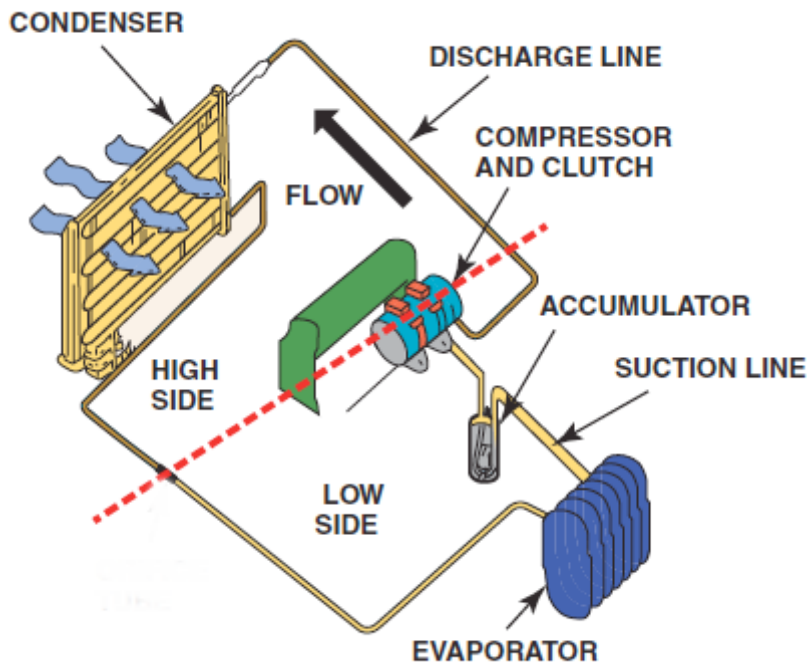


Quiz 3A

NAME \_\_\_\_\_

1. The condenser \_\_\_\_\_ . 1. \_\_\_\_\_  
A) is a heat exchanger  
B) is a device where air passing over it cools the refrigerant and causes it to condense into a high-temperature liquid  
C) transfers heat from the refrigerant to the air  
D) All of the above
2. What type of A/C system is shown in this diagram? 2. \_\_\_\_\_



- A) TXV system  
B) Vapor system  
C) Orifice tube system  
D) VAT system
3. Evaporator icing can be controlled by \_\_\_\_\_ . 3. \_\_\_\_\_  
A) increasing compressor RPM  
B) warming the orifice tube  
C) reducing compressor displacement  
D) Any of these
4. Heat travels from \_\_\_\_\_ . 4. \_\_\_\_\_  
A) hot to cooler  
B) cold to warmer  
C) either from hot to cool or the other way depending on the weather  
D) from outside the vehicle to inside the vehicle

5. As the refrigerant passes through the condenser, it \_\_\_\_\_. 5. \_\_\_\_\_  
A) condenses from a gas to a liquid  
B) gives up latent heat to the air flow  
C) is cooled by ambient air  
D) All of these
6. A/An \_\_\_\_\_ is a variable valve that changes the size of the valve opening in response to the cooling load of the evaporator. 6. \_\_\_\_\_  
A) orifice tube  
B) compressor  
C) thermal expansion valve (TXV)  
D) receiver-drier
7. The low side of the refrigeration cycle means \_\_\_\_\_. 7. \_\_\_\_\_  
A) it has low pressure and temperature  
B) it begins at the compressor and ends at the expansion device  
C) that the refrigerant condenses  
D) it is called the liquid line
8. The temperature of the refrigerant as it leaves the compressor on the discharge side should be \_\_\_\_\_. 8. \_\_\_\_\_  
A) warm  
B) cool  
C) cold  
D) hot
9. Pressures are controlled in an orifice tube (OT) system by \_\_\_\_\_. 9. \_\_\_\_\_  
A) using a variable valve  
B) cycling an electromagnetic compressor clutch on and off as needed  
C) using a variable displacement compressor  
D) Either B or C
10. Which unit contains a desiccant to remove moisture from the system? 10. \_\_\_\_\_  
A) Receiver-drier  
B) Accumulator  
C) Evaporator  
D) Both A and B

## Answer Key

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1. D  
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2. C  
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3. C  
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4. A  
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5. D  
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6. C  
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7. A  
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10. D  
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