EPA Section 608 Technician Certification Study Guide

What are the typical uses of the center port of gauge set?
Used during evacuation, charging and recovery procedures.
What color are the gauges on a manifold gauge set?
Low pressure is blue, High pressure is red.
What are the typical ranges of pressure measurements used on the gauges of a manifold gauge set?
High side is 0 to 500 PSIG; Low side is 0 to 350 PSIG and 0 to 30 in. Hg below atmospheric pressure.
Is the refrigerant leaving a condenser at a high or low pressure? Is it a liquid or a gas?
High pressure, liquid.
Is the refrigerant entering the expansion valve (variable metering device) a liquid or gas?
Liquid, high pressure.
Is the pressure of the refrigerant entering the compressor high or low?
Low pressure vapor.
Where in a refrigerant circuit does a liquid boil to absorb heat?
In the evaporator.
The refrigerant in the suction line is a gas that has been heated above its saturation. What is this condition called?
Superheated vapor.
What can cause liquid refrigerant to migrate to a compressor crankcase?
If the compressor is located in the coldest location in the circuit.
List two conditions that can quickly damage a compressor that is starting to run?
Operating while in a deep vacuum or when the service valves are closed.
What system failures require taking an oil sample?
A compressor burnout or if the unit has had a leak.
Is flushing with refrigerant an acceptable tube cleaning method?
No.
In addition to preventing and repairing leaks what else should a technician do to conserve refrigerant?
Recover and recycle used refrigerants.
What factors affect the speed of an evacuation?
Pump size, hose length, hose diameter, size of system to be evacuated, ambient temperature, suction line size, and the amount of moisture in the system.
How should gauge set hoses be sized for use in evacuating a system?
Use the shortest length and the largest diameter possible for the quickest evacuation. At least as large as the vacuum pump inlet.
When evacuating what is the benefit of using short hoses with large diameters?
Reduces emissions, pressure drop and evacuation time.
Which connection determines the preferred size of hoses used with a vacuum pump?
The vacuum pump inlet.

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