

THEORY OF OPERATION

Basic Air Conditioning System

Refrigerant system divided into two halves

There are two basic system configurations: systems that use expansion valves and systems that use orifice tubes. For both of these systems, the refrigerant is divided into a high-pressure side and a low-pressure side – the dividing points are the compressor and the expansion valve or orifice tube.

In the expansion valve system, the high side begins at the compressor, continues through the condenser, on through the receiver/drier and ends at the expansion valve. The low side begins where the high side left off – at the expansion valve. From there it continues through the evaporator and ends at the compressor.

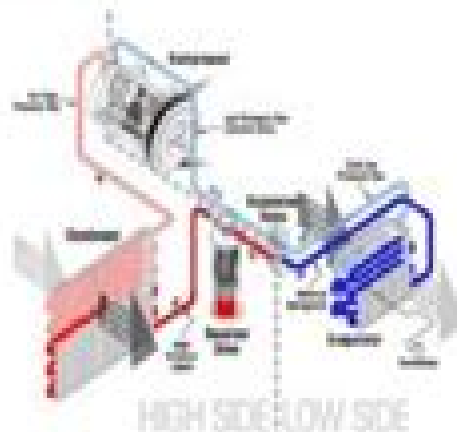
In an orifice tube system, the high side again begins at the compressor, continues through the condenser, and ends at the orifice tube. The low side begins where the high side left off – at the orifice tube. From there it continues through the evaporator, through the accumulator, and again ends at the compressor.

Let's take a look at how each part in the system affects the refrigerant, to allow it to remove heat from the passenger compartment.

Compressor starts refrigerant flow

The compressor is nothing more than a pump (a gas pump, not a liquid pump); its job is to move the refrigerant through the system. When restricted, that flow creates the pressure differential in the system. The compressor is mounted on the engine, and a drive belt from the engine turns the compressor clockwise, working the compressor pistons back and forth. The back-and-forth movement of the pistons is what draws the refrigerant in on the low side and pumps it out on the high side.

When the compressor turns, it pushes all of the refrigerant in the system toward the high side of the expansion valve. At the same time, it pulls all the refrigerant it can from the evaporator side of the expansion valve.



The air conditioning system is divided into two sides: the high side and the low side. The difference in the flow of refrigerant through the system.



The compressor turns the refrigerant through the system in a closed loop.

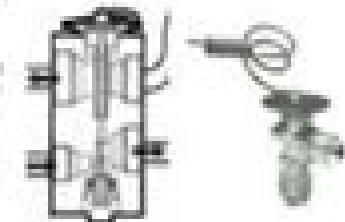
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Expansion valve restricts the refrigerant flow

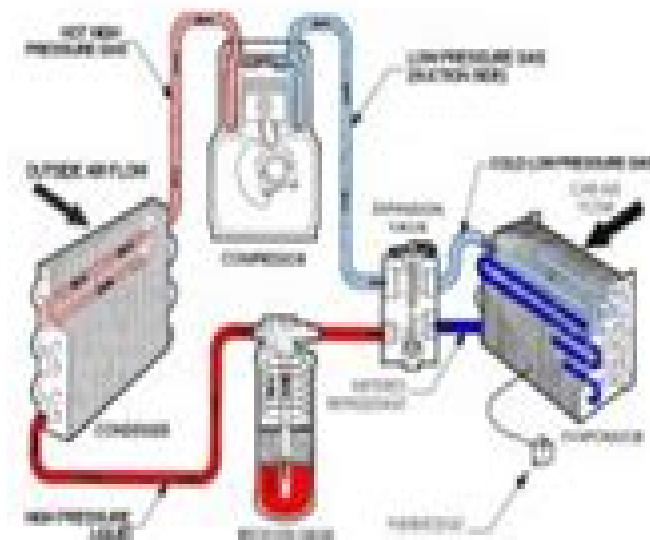
The expansion valve is a restricting orifice that sits between the high side and the low side of the refrigerant system. Whenever you place a restriction in the flow of a closed system, you create a pressure differential between the two sides of the orifice.

The movement of the refrigerant with the expansion valve orifice restricting its flow creates the high side and the low side of the system.

A small amount of high-pressure refrigerant passes through the orifice in the expansion valve, and as it reaches the low pressure in the evaporator, the refrigerant's pressure drops to about 30 PSI (207 kPa).



The expansion valve restricts the flow of refrigerant to provide the pressure differential the system needs to be able to evaporate and condense properly.



Heavy Duty Air Conditioning Service Manual

Arturo Cuomo



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Table of Contents Heavy Duty Air Conditioning Service Manual

1. Understanding the eBook Heavy Duty Air Conditioning Service Manual
 - The Rise of Digital Reading Heavy Duty Air Conditioning Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Heavy Duty Air Conditioning Service Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Heavy Duty Air Conditioning Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Heavy Duty Air Conditioning Service Manual

- Personalized Recommendations
 - Heavy Duty Air Conditioning Service Manual User Reviews and Ratings
 - Heavy Duty Air Conditioning Service Manual and Bestseller Lists
5. Accessing Heavy Duty Air Conditioning Service Manual Free and Paid eBooks
 - Heavy Duty Air Conditioning Service Manual Public Domain eBooks
 - Heavy Duty Air Conditioning Service Manual eBook Subscription Services
 - Heavy Duty Air Conditioning Service Manual Budget-Friendly Options
 6. Navigating Heavy Duty Air Conditioning Service Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Heavy Duty Air Conditioning Service Manual Compatibility with Devices
 - Heavy Duty Air Conditioning Service Manual Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Heavy Duty Air Conditioning Service Manual
 - Highlighting and Note-Taking Heavy Duty Air Conditioning Service Manual
 - Interactive Elements Heavy Duty Air Conditioning Service Manual
 8. Staying Engaged with Heavy Duty Air Conditioning Service Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Heavy Duty Air Conditioning Service Manual
 9. Balancing eBooks and Physical Books Heavy Duty Air Conditioning Service Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Heavy Duty Air Conditioning Service Manual
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Heavy Duty Air Conditioning Service Manual
 - Setting Reading Goals Heavy Duty Air Conditioning Service Manual
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Heavy Duty Air Conditioning Service Manual

- Fact-Checking eBook Content of Heavy Duty Air Conditioning Service Manual
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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