

Visteon® Compressors

Featuring:

- ◆ Quality Shows In The Details
- ◆ Visteon® FS-10 Compressor
- ◆ The Risks Of Using No-Name Compressors
- ◆ Visteon® Remanufactured Compressors



Aftermarket Source for OE Quality™

Visteon® New Compressors: Quality Shows In The Details

OE Systems Experience Keeps Technology On Tap

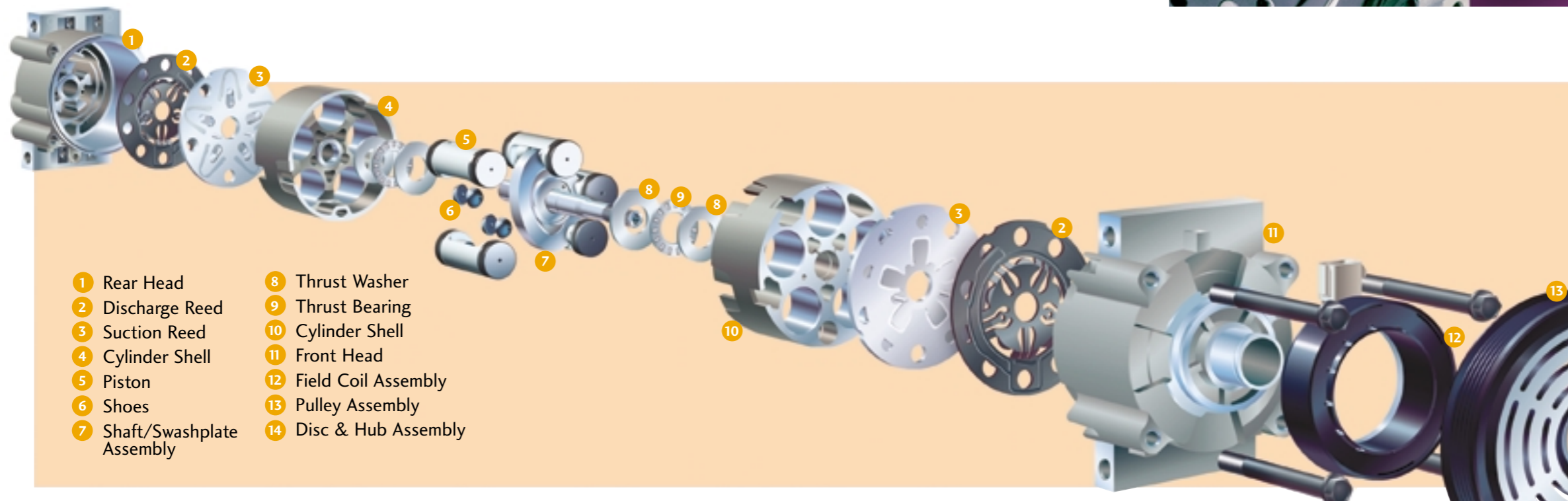
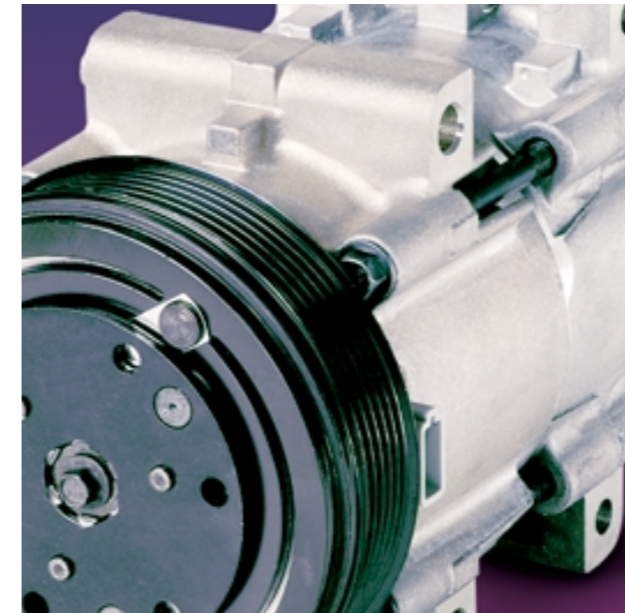
As with most automotive systems, air conditioning continues to get better through evolutionary improvements to its component parts. The applied technology and engineering that improves these parts comes from the kind of OE systems expertise you find at Visteon.

The best source for new compressors for the aftermarket? A company that manufactures A/C system components for automakers. Visteon new compressors are engineered to provide a precise replacement for original equipment compressors. They are designed and made with OE-approved materials to meet Visteon OE-quality and performance standards. And, they always include the latest technology advances.

The Visteon® FS-10 Compressor Is A Perfect Example:

- ◆ Forged aluminum pistons and washplate
- ◆ Heat resistant Teflon® piston rings
- ◆ Tin plated swashplate surface for durability
- ◆ Interchangeable clutch design
- ◆ Compatible with R-12 and R-134a refrigerants
- ◆ Compact 113mm diameter
- ◆ Weighs just 6.4 kg
- ◆ Precise mounting*
- ◆ 154cc and 170cc capacities*
- ◆ Top or rear port configuration*

*Depending on application



- | | |
|-----------------------------|------------------------|
| 1 Rear Head | 8 Thrust Washer |
| 2 Discharge Reed | 9 Thrust Bearing |
| 3 Suction Reed | 10 Cylinder Shell |
| 4 Cylinder Shell | 11 Front Head |
| 5 Piston | 12 Field Coil Assembly |
| 6 Shoes | 13 Pulley Assembly |
| 7 Shaft/Swashplate Assembly | 14 Disc & Hub Assembly |

Take A Closer Look At Visteon® A/C Compressors

For people who wonder what is inside a compressor, we've taken a Visteon FS-10 apart and illustrated its parts on these pages. Remember, with a Visteon compressor, you get OE quality and technology from one end to the other.

Engineered for precise dimensional fit in their applications, Visteon compressors mount right the first time and assure correct belt alignment, clutch fit and sealing of attached refrigerant lines.

Engineered also for performance that lasts, Visteon compressor models randomly selected from the production line must pass a 400-hour key life test for durability. It's one of many Visteon OE-quality steps that provides technicians with compressors they can depend on.

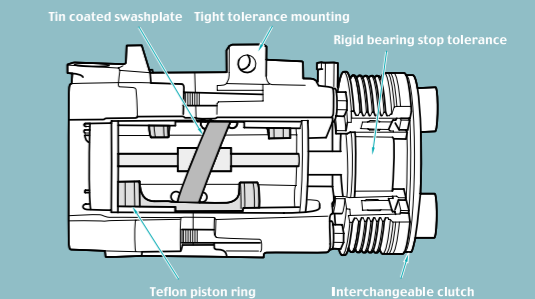
The Risks Of Installing No-Name Compressors

Cheaply made no-name compressors from parts unknown are now showing up at stores. Which begs the question—are you willing to risk a major air conditioning service job to save a few dollars? The quality and dependability of these compressors is highly suspect. First, some of them play fast and loose with the OE standards and specifications for a specific application. And second, parts of unknown name and origin are a big gamble for a warehouse distributor or technician to take with their customers.

Visteon engineers disassembled some typical no-name compressors and compared them with an FS-10, the Visteon compressor illustrated on this page.

Here's what they found:

Flaking Swashplate Coating – Tin plating found to be flaking off and missing key adhesion additive (which could result in premature compressor failure)



Features a no-name unit may not have

Old-Style Piston Rings – Found graphite rings no longer used by OEMs (replaced by more durable Teflon rings)

Non-Interchangeable Clutch Assembly – Old design can't be replaced (requires complete new clutch assembly)

Inconsistent Bearing Stop – Varying accuracy of stop suggests belt alignment problems (resulting in premature noise and wear)

Out-of-Tolerance Mounts – Mounting bosses on housings do not meet OE specifications (misalignment can cause center seam leaks or premature piston and cylinder wall wear)

As you can see, the use of no-name replacement compressors can be a roll of the dice. Now that you have some insight, you can decide—is it worth it?



Visteon® Remanufactured Compressors

The Best Remanufactured Compressors Come From The People Who Also Design And Build New Ones

Visteon makes new compressors using OE systems engineering expertise and the strictest adherence to OE-quality disciplines. The same technology skills and high standards apply to remanufacturing compressors, and to meeting the aftermarket need for more value.

So what's the ideal way to remanufacture an A/C compressor? Use high quality standards for materials and manufacturing just like for new compressors. And that's precisely what Visteon does:

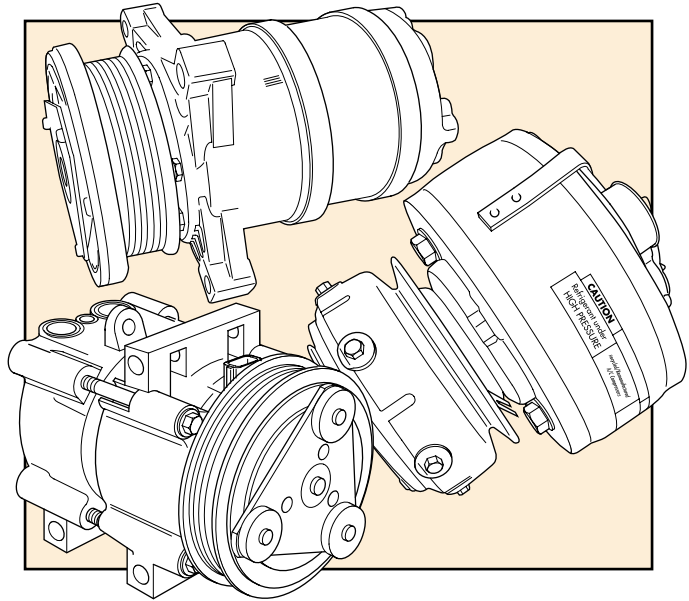
Exactng Parts Selection – Compressor cores are carefully selected and examined for suitability—no cores are used that have had major failure, and 90% or more of the cores have not been remanufactured before.

Careful Disassembly – Parts sorting and gauging is a controlled process in which parts are collected, cleaned and checked to meet Visteon OE-quality standards.

Parts Refinishing & Renewal – Depending on the compressor model, cylinders are line bored and mirror finished, cases and crankshafts are refinished and pistons are renewed.

OE-Quality Replacement Parts – All parts that do not meet Visteon OE-quality standards are replaced with new parts that do. All seals, gaskets and clutch bearings are replaced with new. All seals and gaskets are compatible with R-12 or R-134a. Many other model-specific parts are also replaced.

Environmental Control – Remanufactured compressors are assembled in an environmentally controlled area to prevent contamination. The assembly process includes gauging to assure consistent adherence to Visteon OE-quality specifications.



Leak Testing – Every compressor is statically helium leak tested with a helium mass spectrometer to meet a 1-lb. per 80-year standard.

Performance Testing – Every compressor is function tested to meet OE-quality performance and capacity standards, including high- and low-side pressure testing.

Durability Testing – Random production samples of compressors are subjected to durability tests to monitor remanufacturing quality and performance.

Technicians can depend on Visteon for premium remanufactured compressors for DaimlerChrysler, General Motors, Ford and import applications. These are products that will provide the value of Visteon OE quality and performance that lasts. They are a far better choice than new or remanufactured compressors of unknown name and origin that may be back in the shop in a few weeks.

Service Tip

Because technicians may not always know the service history of the A/C system in which they are installing a new or remanufactured compressor, Visteon recommends the use of an inline suction filter. It may mean the difference between customer satisfaction and a service comeback.



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