

BENDIX® BA-921® SIDE MOUNT COMPRESSOR

An application for Navistar® MaxxForce® 11 and 13 Engines.

The Name You Can Trust

For generations, Bendix Commercial Vehicle Systems has been leading the way in air charging system experience and expertise. More fleets specify our hard-working products and systems than any other.

And now Bendix continues its legacy of quality and innovation by offering the next generation of high-performance compressors for the Navistar® MaxxForce® engine platform – the Bendix® BA-921® Side Mount Compressor (SMC).

A Modern Air Compressor Solution for a Proven Engine

The BA-921 SMC ensures that the latest technology and design enhancements work together with MaxxForce 11/13 engines to provide the optimum performance and reliability of the Bendix single cylinder compressor.

Proven Performance Built on Superior Technology

High Air Delivery

The Bendix single cylinder BA-921 side mount air compressor provides consistent air delivery at all engine speeds. The high-output design supplies 16 cfm (cubic feet per minute) displacement at 1,250 rpm, ensuring rapid and efficient recharge of the air system. Power like this ensures the ability to recharge the system quickly and efficiently. Efficient output means lower duty cycle, and lower duty cycle means longer compressor life.

Energy Saving System

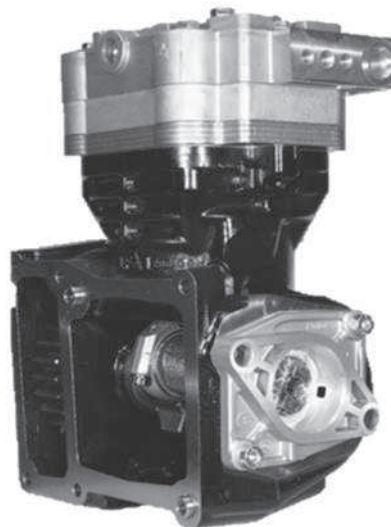
The energy saving system (ESS) includes an unloading mechanism that ensures minimum power draw in the unloaded mode. The result is increased fuel savings relative to older designs.

Increased Reliability

The ESS is significantly more reliable than competitive clutch mechanisms at comparable levels of power consumption. The result is reduced downtime and lower total cost of ownership.

Reduced Oil Passing

The latest design and engineering changes to the cylinder, piston rings, and honing, ensure minimal oil passage plus improve air quality to extend service life.



Effective Cooling Systems

The cylinder head of this hard working unit provides lower discharge air temperatures by incorporating highly effective cooling surfaces, thus further reducing carbon formation and producing higher air quality. Minimizing discharge temperature increases the service life of downstream air components, such as the air dryer and valves.

Compact, Lightweight Design

Highly efficient, the Bendix® BA-921® side mount compressor replaces existing larger and heavier clutched twin cylinder compressors while providing sufficient air for even heavy-duty demands.

By focusing on the entire air system – not just one part – Bendix offers efficient, trouble-free solutions that have:

- A lower total cost of ownership
- A simpler, more integrated design
- Improved performance
- Fewer leak points



BENDIX® BA-921® SIDE MOUNT COMPRESSOR

Bendix® Quality and Service Guaranteed

Bendix stands behind every compressor with complete warranty protection and a veteran technical support team to help you troubleshoot and resolve any air brake system challenges. From sales to service, engineering to production, the Bendix team has years of practical experience hard at work for you.

Bendix® BA-921® Side Mount Compressor Specifications

Typical weight:	39 Lbs.
Number of cylinders	1
Bore Diameter	3.622 in. (92 mm)
Stroke	2.126 in. (54 mm)
Calculated displacement at 1250 RPM	15.8 CFM
Flow Capacity @ 1800 RPM & 120 PSI	11.6 CFM
Flow Capacity @ 3000 RPM & 120 PSI	16.5 CFM
Approximate horsepower required:	
Loaded 1800 RPM at 120 PSIG	4.6 HP
Unloaded 1800 RPM	0.8 HP
Minimum coolant flow at maximum RPM	2.5 Gals./Min.
Maximum inlet air temperature	250°F
Maximum discharge air temperature	400°F
Minimum oil pressure required	15 PSI
Minimum oil-supply line size	3/16" I.D.
Minimum unloader-line size	3/16" I.D.
Minimum Governor Cut-out Pressure	120 PSI

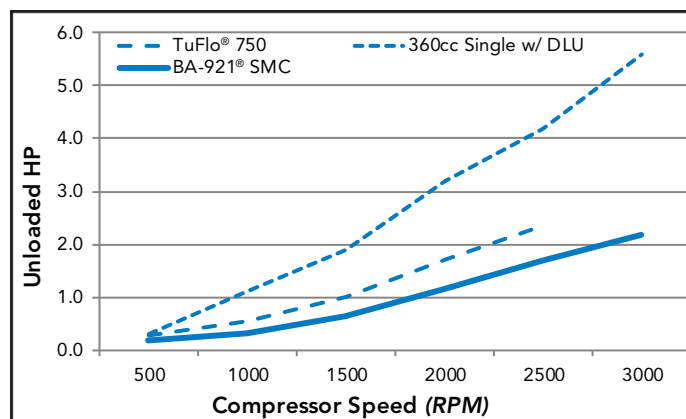
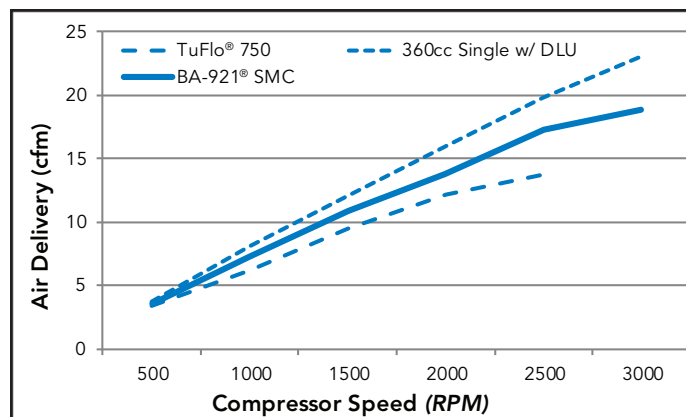
Part #	Description
K044642	Bendix SN Compressor
K075155	Bendix Re Compressor
K023764	Head Gasket Kit
K109119	ESS Unloader Kit
K105705	Safety Valve Kit
K032046	Governor Hardware Kit

Part # Cross Reference	
3709920C92	Navistar OE Part #
K042162	Bendix OE Part #
2513644C91	Retro Kit (Compressor & Hoses)

Bendix® compressors provide the power that keeps you on the road and the value that keeps you coming back.

The Bendix® BA-921® Side Mount Compressor is one of the complete line of Bendix air brake components that can help improve vehicle performance, increase efficiency, and reduce your overall operating costs. To find out more, talk to your Bendix Account Manager, call 1-800-AIR-BRAKE (1-800-247-2725), or visit www.bendix.com today.

BA-921® SMC Performance Curves



FEATURES

Efficient unloading system

Clutchless design

Low oil passing

Based on industry leading best-in-class design

BENEFITS

Reduced energy demand during idle

Robust design, eliminates inherent service issues with competitor's product

Minimizes harmful oil vapors from contaminating the air system

Lowest total cost of ownership