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## SERVICE BULLETIN : MSC Compressor Versions And Serial Numbers

When servicing or replacing Medium Screw Compressors one must be aware of the differences between versions and variations therein. The following service bulletin clarifies when different versions of Medium Screw Compressors were released. This includes descriptions of each version or changes made that make them unique. Major part changes that effect the MSC are also listed in this bulletin. Additionally an explanation of the serial number system is included in the bulletin.

Compressor version letter is included in the model number of compressor (ex. 1215NHF6X6K0EMBJ0C)

<u>Version</u>	<u>Dates</u>	<u>Descriptions</u>
D	'75 to '76	- Field-test version fabricated by production. - Used internal oil pump.
E	'76	- Face seal type B/Piston with reduced Bearing Centers. - Used internal oil pump.
F	'76 to '77	- Two casting designs. - All bolts are metric. - Used internal oil pump.
G	'77 to '78	- No unloader control assembly supplied with compressor, it is OEM externally piped. - Taper roller bearing design. - All housings made of Aluminum. - First design released into production.
H	'78 to '82	<b><u>102 &amp; 127mm "H" version</u></b> - Provision for oil equalization and oil level sensor monitoring. - No unloader control assembly supplied with compressor, it was OEM externally piped. - No internal suction check valve or filter supplied. - Oil separator birdcage style with wrapped filter material. - Only available in Semi-Hermetic flanged enclosure.
J	Oct.'81 to Dec. '96	<b><u>102MM "J" version.</u></b> - Oil separator birdcage style with wrapped filter material. ('81 to '89) - Oil separator cartridge-type style w/5 layers of filter material. ('89 to Dec.'96) - Available in fully hermetic welded enclosure. - Suction filter and suction check valve assembly included attached to compressor. - Externally mounted unloader control assembly included with compressor. ('81 to '82) - Pad mounted unloader control assembly w/solenoids and needle valves. ('82 to '96) - Cast Iron outlet Housing ('86 to Dec.'96)

<u>Version</u>	<u>Dates</u>	<u>Descriptions</u>
J	Oct.'81 to July 01	<p><b><u>1210 &amp; 1212 “J” version.</u></b></p> <ul style="list-style-type: none"> <li>- Oil separator birdcage style with wrapped filter material. ('81 to '89)</li> <li>- Oil separator cartridge-type style w/5 layers of filter material. ('89 to July 01)</li> <li>- Available in fully hermetic welded enclosure.</li> <li>- Suction filter and suction check valve assembly included attached to compressor.</li> <li>- Externally mounted unloader control assembly included with compressor. ('81 to '82)</li> <li>- Pad mounted unloader control assembly w/solenoids and needle valves. ('82 to '01)</li> <li>- Cast Iron outlet housing (1986 to July 01)</li> </ul>
J	Oct.'81 to Present	<p><b><u>1215 &amp; 1216 “J”version.</u></b></p> <ul style="list-style-type: none"> <li>- Oil separator birdcage style with wrapped filter material. ('81 to '89)</li> <li>- Oil separator cartridge-type style w/5 layers of filter material. ('89 to Present)</li> <li>- Available in fully hermetic welded enclosure.</li> <li>- Suction filter and suction check valve assembly included attached to compressor.</li> <li>- Externally mounted unloader control assembly included with compressor. ('81 to '82)</li> <li>- Pad mounted unloader control assembly w/solenoids and needle valves. ('82 to 3/'00)</li> <li>- Alco pad mounted unloader control solenoids with no adjustment. (3/'00 to Present)</li> <li>- Cast Iron outlet housing (1986 to Present)</li> </ul>
K	Jan.'92 to Present	<p><b><u>1210, 1212, 1215 &amp; 1218 “K” version.</u></b></p> <ul style="list-style-type: none"> <li>- Oil separator cartridge-type style w/5 layers of filter material.</li> <li>- Available in fully hermetic welded enclosure.</li> <li>- Suction filter and suction check valve assembly included attached to compressor.</li> <li>- Pad mounted unloader control assembly w/solenoids and needle valves. ('92 to 3/'00)</li> <li>- Alco pad mounted unloader control solenoids with no adjustment. (3/'00 to Present)</li> <li>- Cast iron housings.</li> <li>- Inlet needle bearings.</li> <li>- Liquid injection added to 6W4 models. (August '99 to Present)</li> </ul>
K	Sept.'96 to April'99	<p><b><u>110mm 6L6 &amp; 6N4 “K” version.</u></b></p> <ul style="list-style-type: none"> <li>- Fully hermetic welded enclosure.</li> <li>- Suction filter and suction check valve assembly included attached to compressor.</li> <li>- Pad mounted unloader control assembly w/solenoids and needle valves.</li> <li>- Cast iron housings.</li> <li>- Inlet needle bearings.</li> </ul>
K	April '99 to Present	<p><b><u>110mm 6X6 “K” version.</u></b></p> <ul style="list-style-type: none"> <li>- Fully hermetic welded enclosure.</li> <li>- Suction filter and suction check valve assembly included attached to compressor.</li> <li>- Pad mounted unloader control assembly w/solenoids and needle valves. ('99 to 3/'00)</li> <li>- Alco pad mounted unloader control solenoids with no adjustment. (3/'00 to Present)</li> <li>- Cast iron housings.</li> <li>- Inlet needle bearings.</li> <li>- Vapor injection (economizing) added for increased capacity and efficiency.</li> </ul>

**480/3/60 – 400/3/50 Motor voltage phased in. (Approximately May 2001 to Present)**

Each MSC model started to use 480V motors at different dates. The 460V motors were mixed in with the 480V motors and all were labeled as 460V. This began for the different 127mm models in May of 2001. Below is an approximate serial number date for each model as of 9-27-01 to start using 480V motors. Please be aware that 460V motors were mixed in after these dates until stock was used up. If there is a question on a certain compressor, the motor voltage can be determined from the motor inspection sheet in the build folder.

1210NHF6X6K	The first model using a 480V motor was serial #CJC-A0914-03
1210NHF6W4K	The first model using a 480V motor was serial #CHC-A0856-03
1212NHF6W4K	The first model using a 480V motor was serial #CEC-A0605-03
1215NHF6W4K	The first model using a 480V motor was serial #CGC-B0795-03
1215NHF6X6K	The first model using a 480V motor was serial #CEC-A0560-03
1215NUF6V5K	The first model using a 480V motor was serial #CJC-A0897-03
1215NHL6V5K	The first model using a 480V motor was serial #CFC-A0640-03
1215BHL6V5K	The first model using a 480V motor was serial #CEC-A0601-03
1216NHF6W3K	The first model using a 480V motor was serial #CJC-B0900-03
1218NHF6W4K	The first model using a 480V motor was serial #CGC-A0724-03

**Serial Numbers**

'80 to '85: Added build level and product code for all product lines. Dropped digit for compressor version (moved to model number) e.g.:

**85D700084**    **7**= MSC product line  
                   **0** = New compressor (6 = RMF)  
                   **85**= Year of manufacture

'85 to '97: Added letter code to indicate motor manufacture:

**85F800129S**    **S** = New A.O. Smith Motor  
                   **F** = Month of manufacture (A= Jan., B=Feb., etc.)

'97 to present: Totally revamped serial number system

**AFC-A0001-03**    **AF** = month and year code  
                   **C** = Product code (MSC)  
                   **A** = Build level and location (i.e. New at West Hartford)  
                   **0001** = sequential number build by product  
                   **03** = motor manufacture (ex. 03=Leroy Somer)